Date of issue	2024-05-30
Version	1.0
Total pages	23

Test report of
IES LM-79-08
Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Applicant:

Beyond LED Technology

Address:

1939 Parker Court, Stone Mountain, GA 30087

For Product:

High Bay Luminaries (Commercial and Industrial)

Model No.:

HB08-150L-CS-3CCT

Test laboratory: Shenzhen Belling Efficiency Testing Lab Co., Ltd, 1Floor, No.1 Building, Meibaohe Industrial Park, Dalang Street, Longhua District, Shenzhen, Guangdong Prov.518101 China.

Complied by: Sam Chen	**Review by: Jason zhou**
Project Engineer	**Technical Manager**

Note: The test data was only valid for the test sample(s). This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Shenzhen Belling Efficiency Testing Lab Co., Ltd. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

1 General

1.1 Product Information

Manufacturer	Beyond LED Technology
Manufacturer Address	1939 Parker Court, Stone Mountain, GA 30087
Brand Name	Beyond LED Technology
Luminaire Type	High Bay Luminaires (Commercial and Industrial)
Model Number	HB08-150L-CS-3CCT
Rated Inputs	AC 120-277V, 50/60Hz
Field-Adjustable Product	Yes, Wattage setting: 100W, 125W, 150W
Color-Tunable Product	Yes, CCT setting: 4000K, 5000K, 5700K
Dimming Capability	Continuous
Integral Control Sensors	Optional
Date of Receipt Samples	2024-05-13
Date of test	2024-05-14 to 2024-05-22
Burning Time Before Test	0hour(For New Products)

1.2 Standards or methods

- ANSI C78.377-2017: Specifications for the Chromaticity of Solid State Lighting Products
- ANSI C82.77-10:2014: Harmonic Emission Limits - Related Power Quality Requirements for Lighting Equipment - Solid State
- CIE Publication No.13.3-1995: Method of Measuring and Specifying Color Rendering of Light Sources
- IESNA LM-79-08 Approved Method: Electric & Photometric Measurement of Solid-state Lighting Products

1.3 Equipment list

Device	Manufacture	Model No.	Serial No.	Calibration due date
Goniophotometeric System	SENSING	GMS-3000	M101758514120011	2025-04-09
AC Power Source	ALL POWER	ALL POWER	970780	2025-04-17
Total Luminous Flux Standard Lamp	SENSING	110V/100W	S13100188	2025-04-16
Total Luminous Flux Standard Lamp	OSRAM	12V/20W	LSD12201737	2025-04-16
Total Spectral Radiant Flux Standard Lamp	Everfine	D204	M133806CA1411205	2025-04-16
Digital Power Meter	YOKOGAWA	WT310	C2QM02030V	2025-04-17
Thermostatic stabilized photometric sphere	SENSING	SPR-600M	N.A	2025-04-09
Plant spectral photosynthetically radiometer	Everfine	SP-20	P612946CF1411115	2025-04-09
Digital Power Meter	YOKOGAWA	WT210	91L929742	2025-04-17
Spectral radiometer	SENSING	SPR-3000	S1101108	2025-04-09
Environment Measurer	XUYAO	HS-1	N/A	2025-04-11
Environment Measurer	XUYAO	HS-1	N/A	2025-04-11
Stop watch	KISLO	K610	N/A	2025-04-17
Digital Anemometer	TECMAN	TD8901	026141	2024-09-06

Statement of Traceability: Shenzhen Belling Efficiency Testing Lab Co., Ltd attests that all calibration has been performed using suitable standards traceable to national primary standards and International System of Unit (SI).

2 Test conducted and method

2.1 Ambient Condition

The ambient temperature in which measurements are being taken was maintained at 25°C ±1°C, the air flow around the sample(s) being tested did not affect the performance.

2.2 Power Supply Characteristics

The AC power supply had a sinusoidal voltage wave shape at the prescribed frequency (60 Hz) such that the RMS summation of the harmonic components does not exceed 3 percent of the fundamental during operation of the test item.

The voltage of AC power supply (RMS voltage) applied to the device under test was regulated to within±0.2 percent under load.

2.3 Seasoning and Stabilization

No seasoning was performed in accordance with IESNA LM-79-08. And before the measurement, the sample was stabilized until the light output and power variations were less than 0.5% in 30 minutes intervals (3 readings, 15 minutes apart).

2.4 Integrating Sphere System

The system includes AC power source, digital power meter, DC power supply, spectrophotometer, and integrating sphere. The integrating sphere system is calibrated by standard light source before measurement. The system and standard light source has been calibrated regularly and traceable to the National Primary Standards. 4π geometry was used during measurement. The product was operated in its intended orientation in application and was recorded in this report.

Integrating Sphere Uncertainty: The uncertainty of the light output (luminous flux) measurements is U=1.8% (K=2), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is U=20K (K=2), at the 95% confidence level. The uncertainty of the CRI is U=1.8(K=2), at the 95% confidence level. The uncertainty of power meter AC current U=0.18% of rdg, AC Voltage U=0.16% of rdg, Power U=0.20% (K=2), at the 95% confidence level.

2.5 Goniophotometer System

The goniophotometer system is calibrated by standard light source before measurement. The standard light source has been calibrated regularly and traceable to the National Primary Standards.

Type C goniophotometer was used for measuring total luminous flux, luminous intensity distribution, and color spatial uniformity. The product was operated in its intended orientation in application and was recorded in this report. The method according to IESNA LM-79-08 following chapter.

Goniophotometer Uncertainty: The uncertainty of the luminous intensity is U=1.6% (K=2), at the 95% confidence level.

3 Test Result Summary

3.1 Integrating Sphere System (Total operating time for integrating sphere test: 1.0 hour)

3.1.1 Model Number:
HB08-150L-CS-3CCT

Electrical data

Input Voltage(V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.08	60	1.234	147.85	0.998

Photometric data

Luminous Flux (lm)	Efficacy (lm/W)	CCT (K)
24424.18	165.2	4056

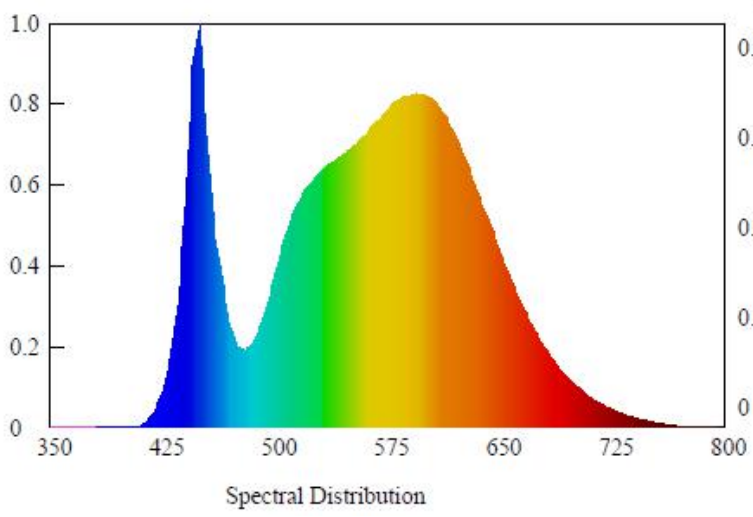
Chromaticity Coordinate

Duv	x	y	u'	v'
+0.00013	0.3781	0.3756	0.2241	0.5007

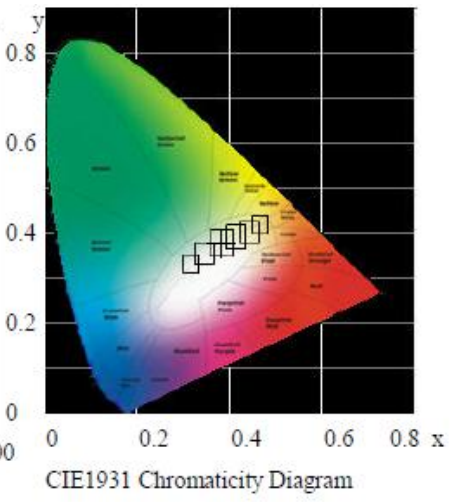
Color Rendering

CRI	R9	Rf	Rg	Rcs,h1(%)
82.6	12	83	98	-11

Spectral Distribution

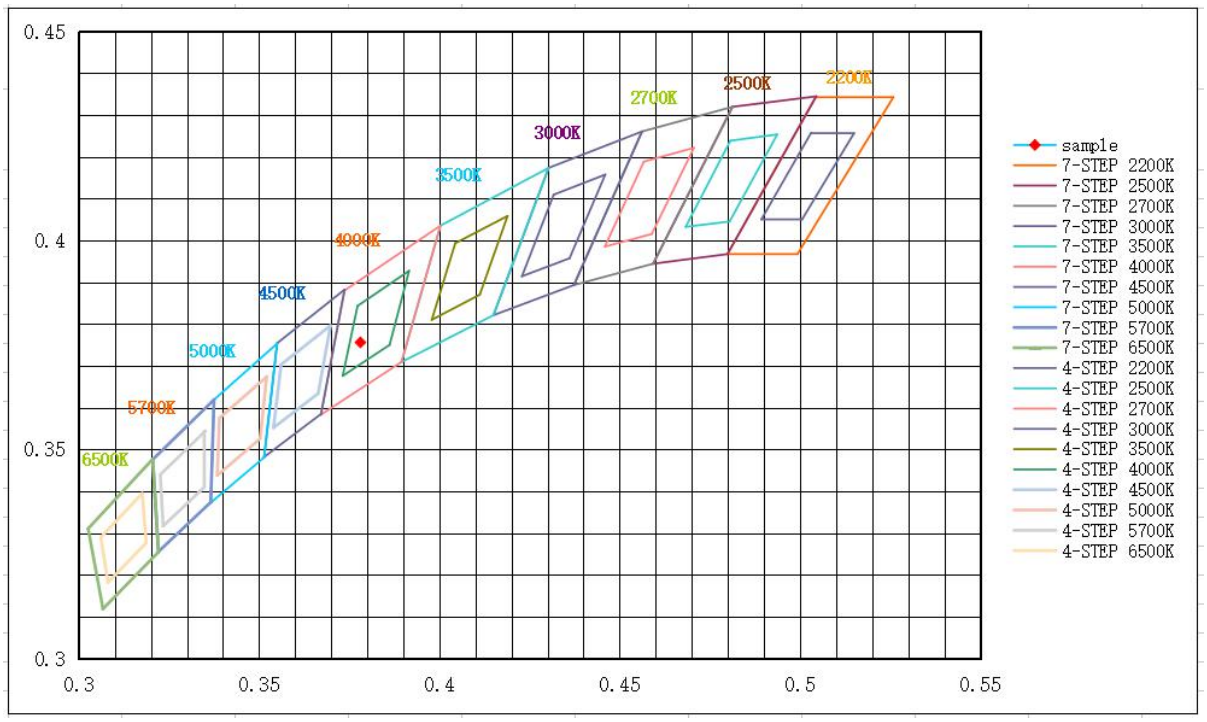


Spectral Distribution



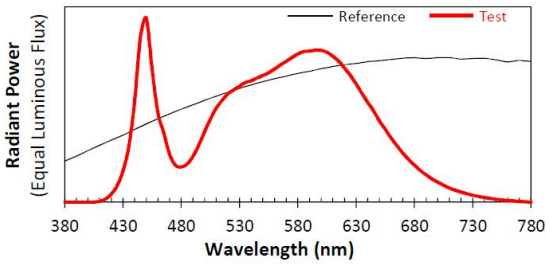
CIE1931 Chromaticity Diagram

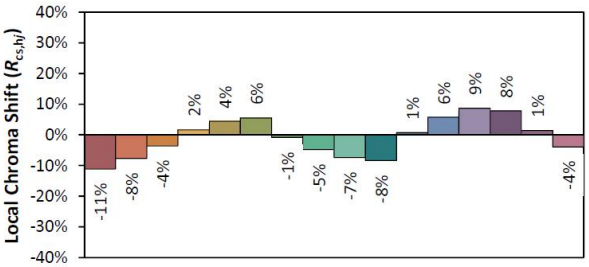
7/4 Step Quadrangle

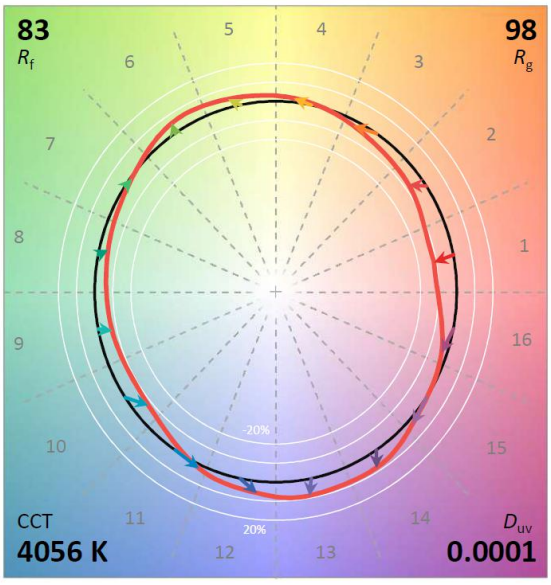


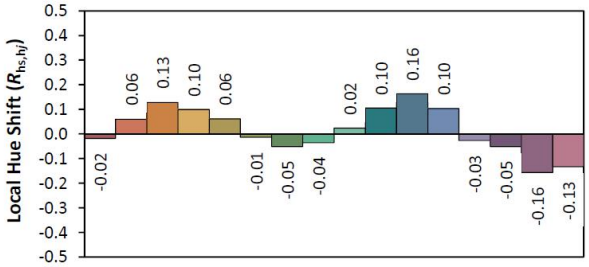
ANSI/IES TM-30-18 Color Rendition Report

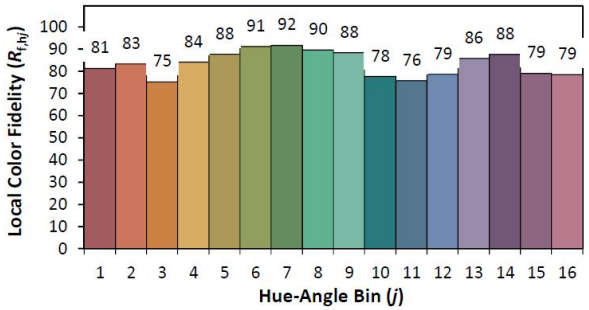
Source:	BL240513002-9	**Manufacturer:**	Beyond LED Technology
Date:	2024-05-30	**Model:**	HB08-150L-CS-3CCT

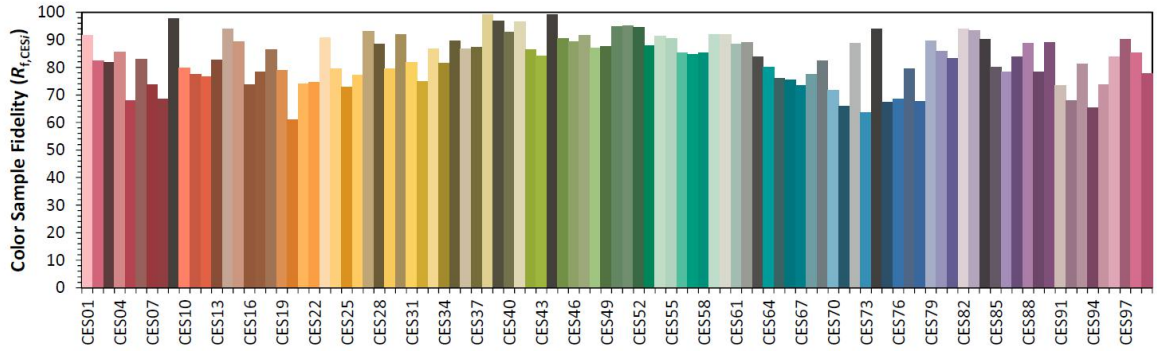












Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x	0.3781
y	0.3756
u'	0.2241
v'	0.5007

CIE 13.3-1995 (CRI)

R_a	83
R_9	12

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

3.1.2 Model Number:
HB08-150L-CS-3CCT

Electrical data

Input Voltage(V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.15	60	1.204	144.26	0.997

Photometric data

Luminous Flux (lm)	Efficacy (lm/W)	CCT (K)
25057.43	173.7	4774

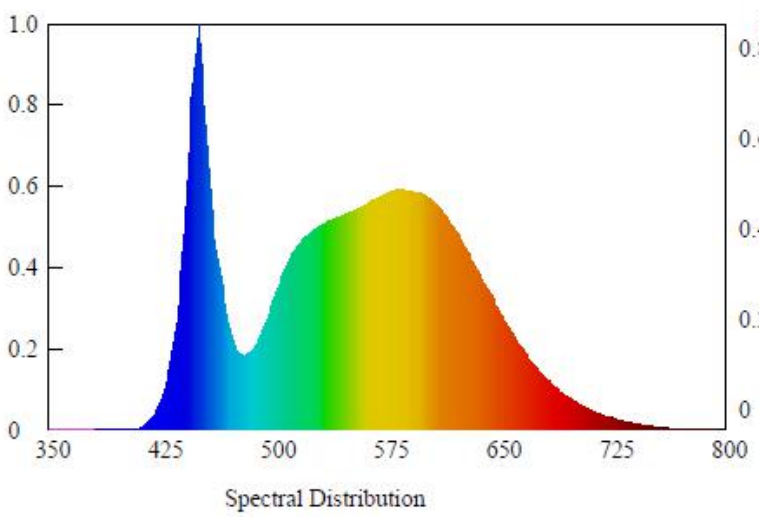
Chromaticity Coordinate

Duv	x	y	u'	v'
-0.00081	0.3515	0.3551	0.2144	0.4873

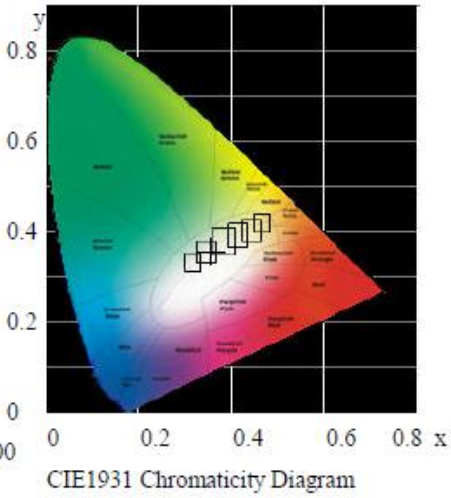
Color Rendering

CRI	R9	Rf	Rg	Rcs,h1(%)
83.3	15	83	98	-11

Spectral Distribution

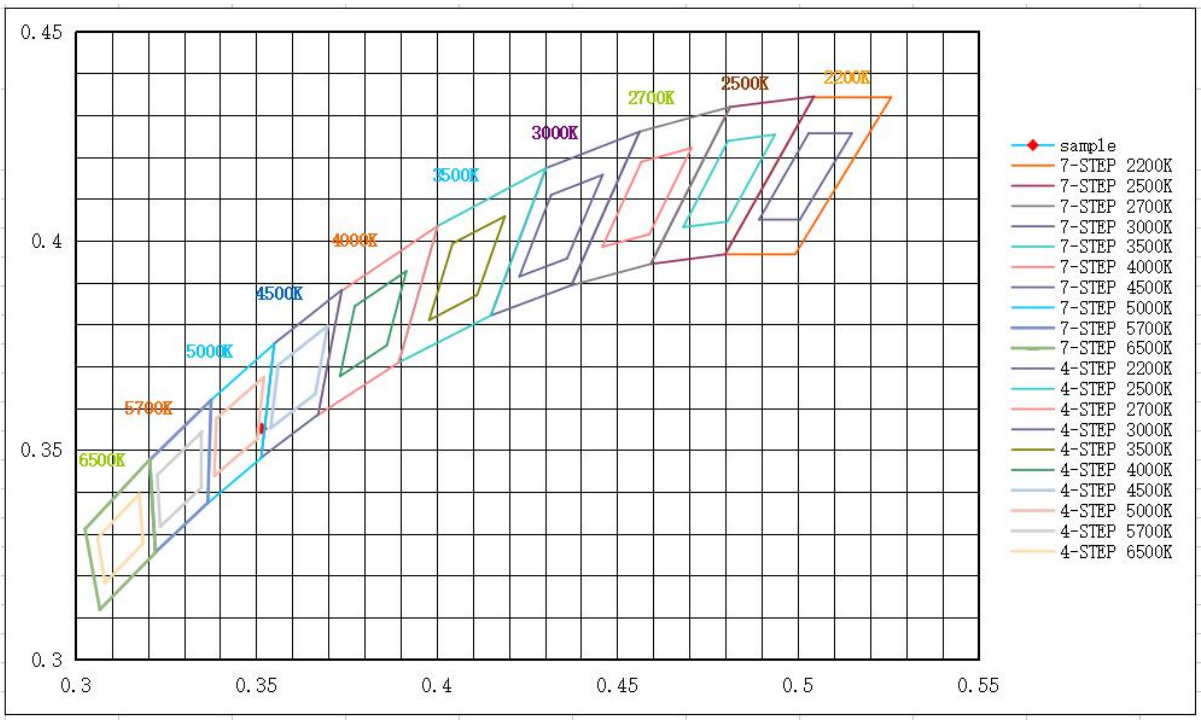


Spectral Distribution



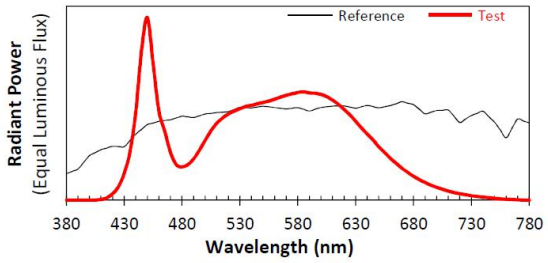
CIE1931 Chromaticity Diagram

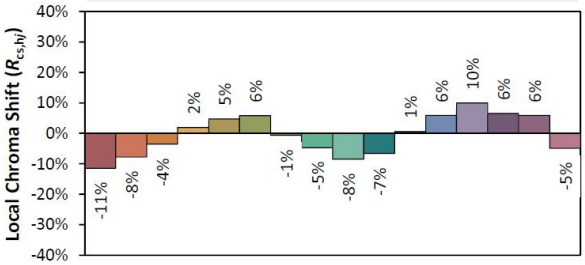
7/4 Step Quadrangle

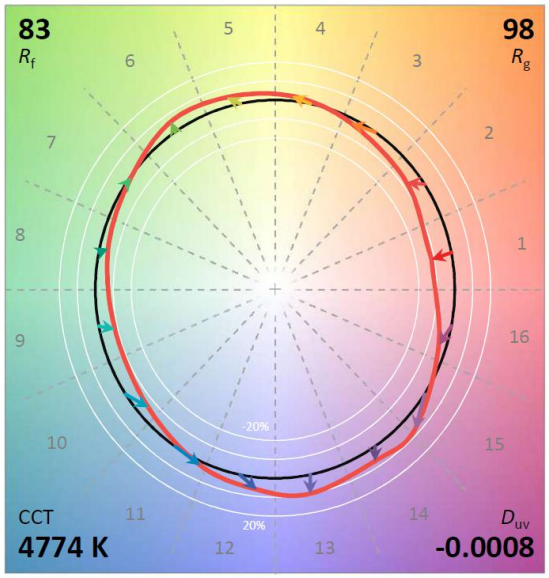


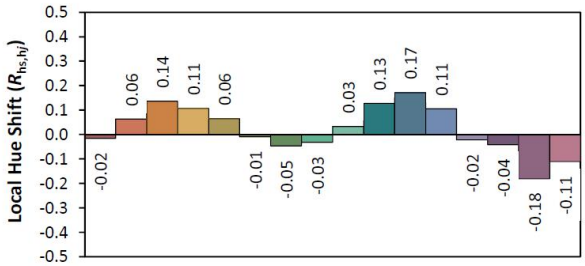
ANSI/IES TM-30-18 Color Rendition Report

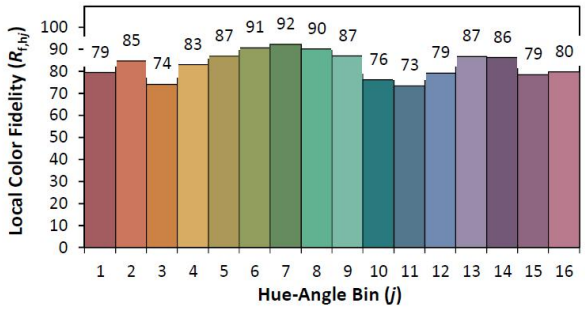
Source:	BL240513002-9	**Manufacturer:**	Beyond LED Technology
Date:	2024-05-30	**Model:**	HB08-150L-CS-3CCT

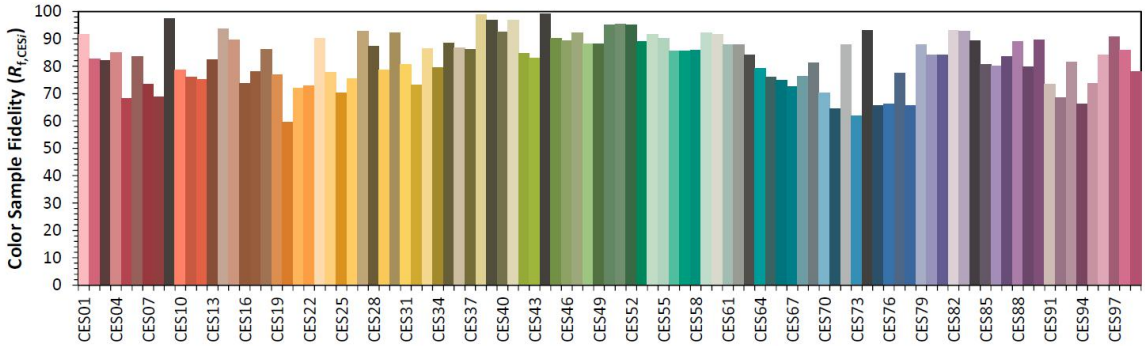












Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x	0.3515
y	0.3551
u'	0.2144
v'	0.4873

CIE 13.3-1995 (CRI)

R_a	83
R_9	15

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

3.1.3 Model Number:
HB08-150L-CS-3CCT

Electrical data

Input Voltage(V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.13	60	1.232	147.71	0.998

Photometric data

Luminous Flux (lm)	Efficacy (lm/W)	CCT (K)
24889.04	168.5	5954

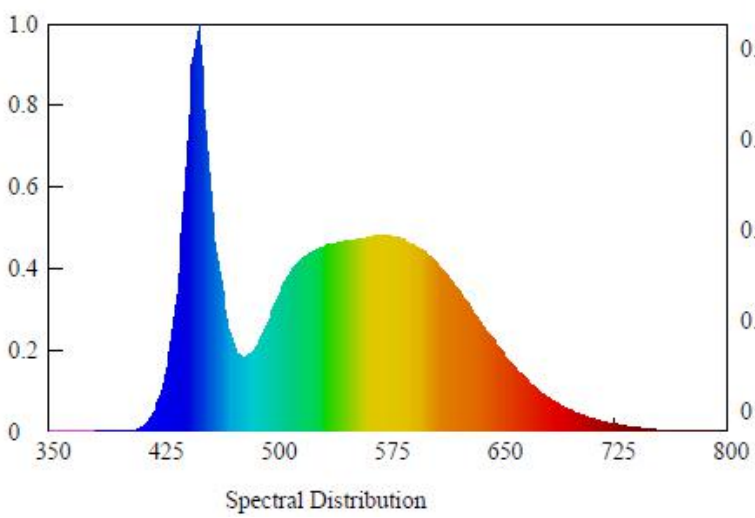
Chromaticity Coordinate

Duv	x	y	u'	v'
+0.00028	0.3230	0.3331	0.2034	0.4720

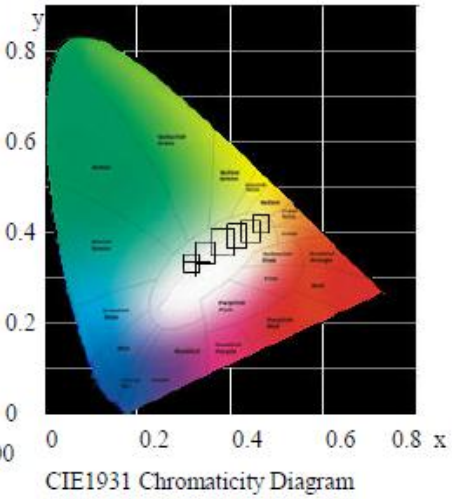
Color Rendering

CRI	R9	Rf	Rg	Rcs,h1(%)
82.4	11	82	98	-12

Spectral Distribution

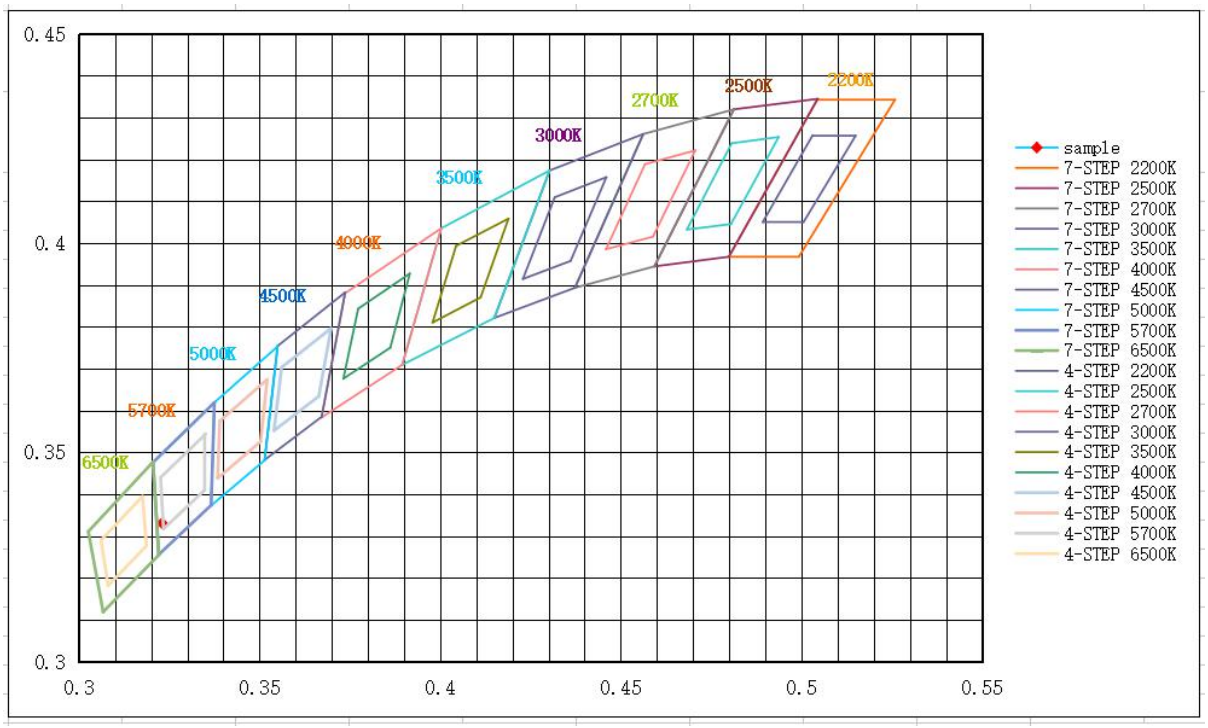


Spectral Distribution



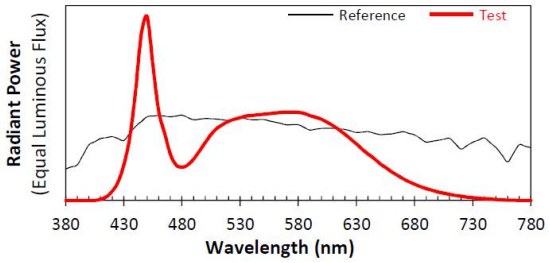
CIE1931 Chromaticity Diagram

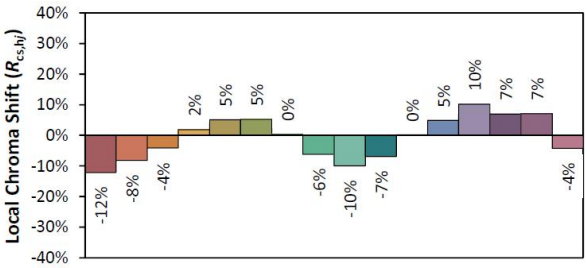
7/4 Step Quadrangle

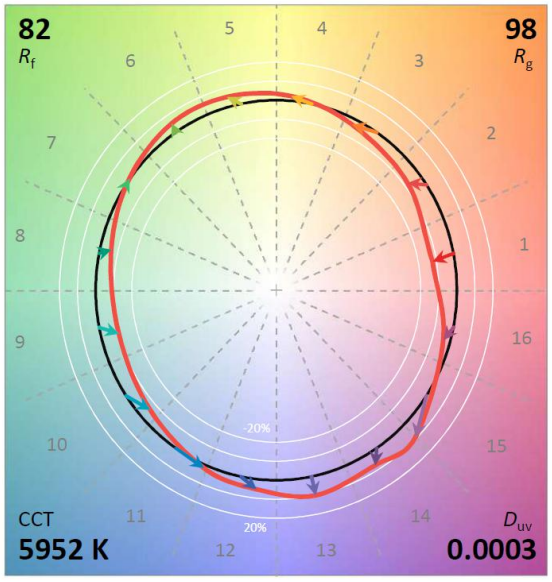


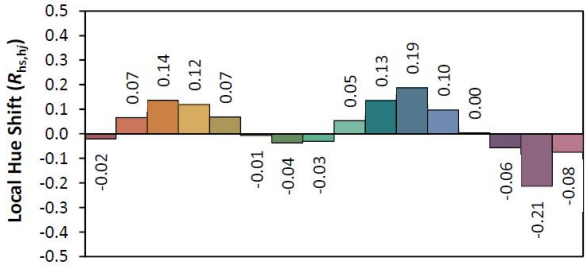
ANSI/IES TM-30-18 Color Rendition Report

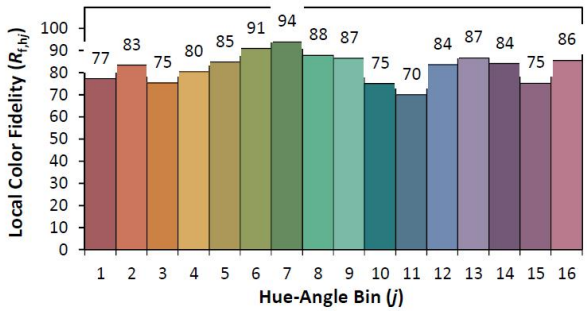
Source:	BL240513002-9	**Manufacturer:**	Beyond LED Technology
Date:	2024-05-30	**Model:**	HB08-150L-CS-3CCT

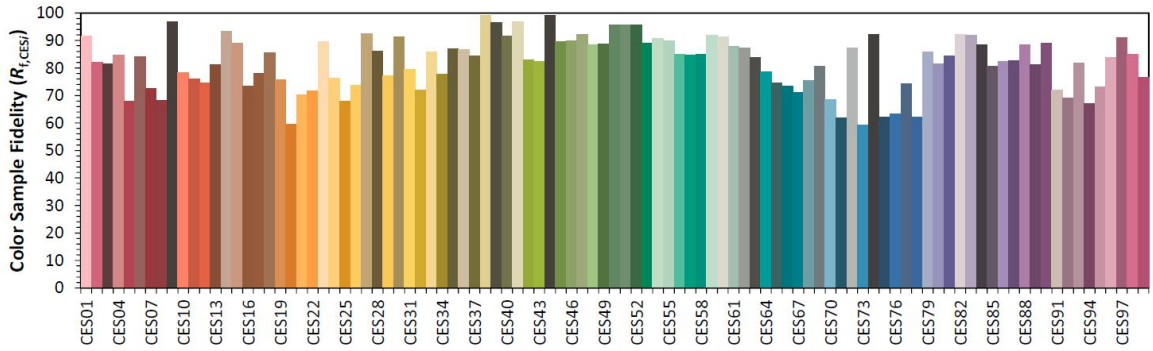












Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x	0.3230
y	0.3331
u'	0.2034
v'	0.4720

CIE 13.3-1995 (CRI)

R_a	82
R_9	11

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

3.2 Goniophotometer System (Total operating time for luminous intensity distribution: 1.0 hour)

3.2.1 Model Number:
HB08-150L-CS-3CCT

Electrical data

Input Voltage(V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.02	60	1.2330	147.66	0.9975

Photometric data

Luminous Flux (lm)	Efficacy (lm/W)	Zonal Lumen in 20-50°(%lm)
24436.08	165.49	64.29

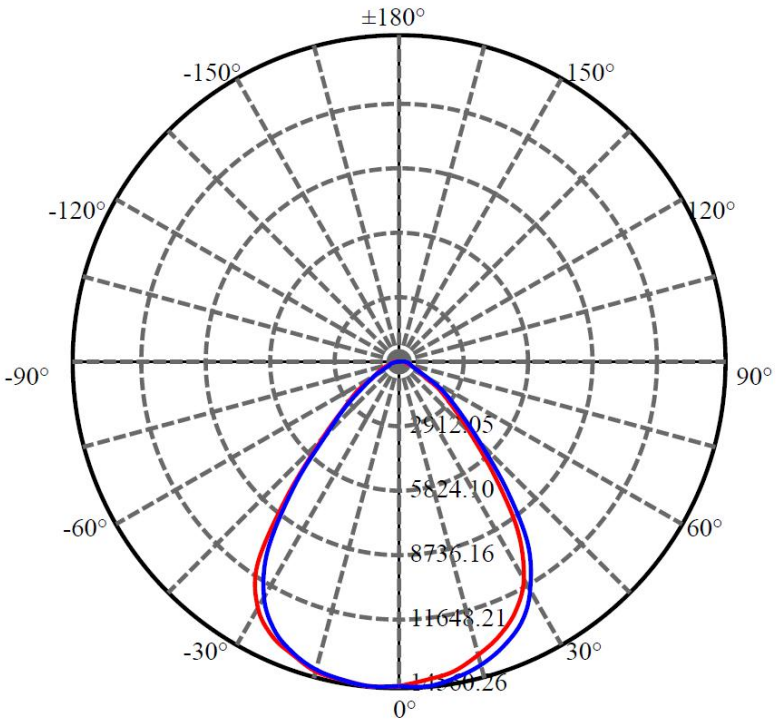
Zonal Flux Diagram

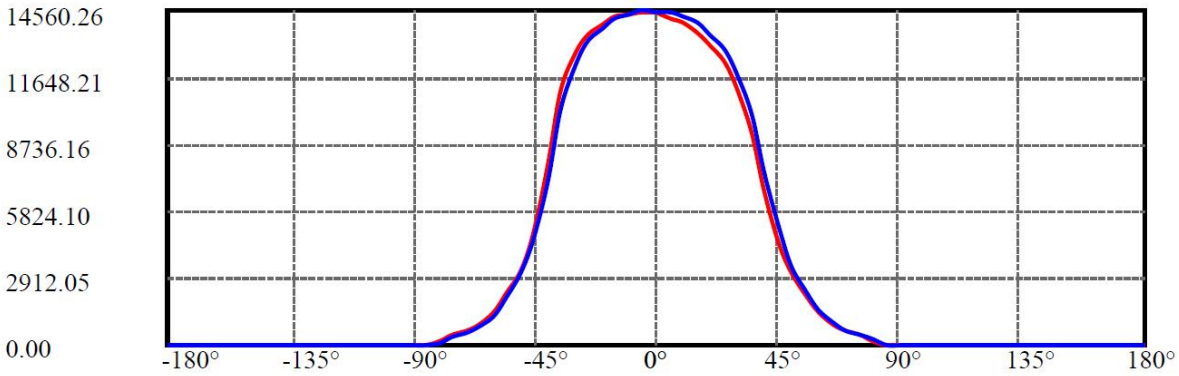
Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14461.740	0.000	0	0.00%	0.00%
5.0	14406.215	345.108	345.108	0.00%	1.41%
10.0	14225.963	1024.263	1369.371	0.00%	5.60%
15.0	13937.126	1670.615	3039.987	0.00%	12.44%
20.0	13493.084	2260.635	5300.621	0.00%	21.69%
25.0	12845.919	2762.475	8063.097	0.00%	33.00%
30.0	11782.941	3116.803	11179.9	0.00%	45.75%
35.0	9908.180	3194.169	14374.069	0.00%	58.82%
40.0	7171.835	2849.671	17223.74	0.00%	70.48%
45.0	4697.410	2197.687	19421.427	0.00%	79.48%
50.0	3159.337	1587.571	21008.998	0.00%	85.98%
55.0	2104.048	1144.435	22153.433	0.00%	90.66%
60.0	1388.066	807.192	22960.625	0.00%	93.96%
65.0	902.835	556.922	23517.548	0.00%	96.24%
70.0	585.882	376.953	23894.5	0.00%	97.78%
75.0	408.990	260.044	24154.544	0.00%	98.85%
80.0	183.770	158.606	24313.15	0.00%	99.50%
85.0	27.335	57.362	24370.512	0.00%	99.73%
90.0	2.259	8.103	24378.615	0.00%	99.76%
95.0	2.287	1.245	24379.859	0.00%	99.77%
100.0	2.259	1.235	24381.095	0.00%	99.77%
105.0	2.548	1.286	24382.381	0.00%	99.78%
110.0	3.170	1.495	24383.875	0.00%	99.79%
115.0	4.170	1.859	24385.734	0.00%	99.79%
120.0	5.473	2.344	24388.078	0.00%	99.80%
125.0	7.181	2.925	24391.003	0.00%	99.82%
130.0	9.454	3.617	24394.62	0.00%	99.83%
135.0	12.118	4.359	24398.979	0.00%	99.85%
140.0	14.811	4.986	24403.965	0.00%	99.87%
145.0	17.765	5.435	24409.4	0.00%	99.89%
150.0	20.819	5.682	24415.082	0.00%	99.91%
155.0	23.541	5.614	24420.696	0.00%	99.94%
160.0	25.626	5.157	24425.852	0.00%	99.96%
165.0	26.697	4.312	24430.165	0.00%	99.98%
170.0	27.436	3.211	24433.376	0.00%	99.99%
175.0	28.478	2.000	24435.376	0.00%	100.00%
180.0	30.469	0.705	24436.081	0.00%	100.00%

Luminous Intensity Distribution Diagram

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

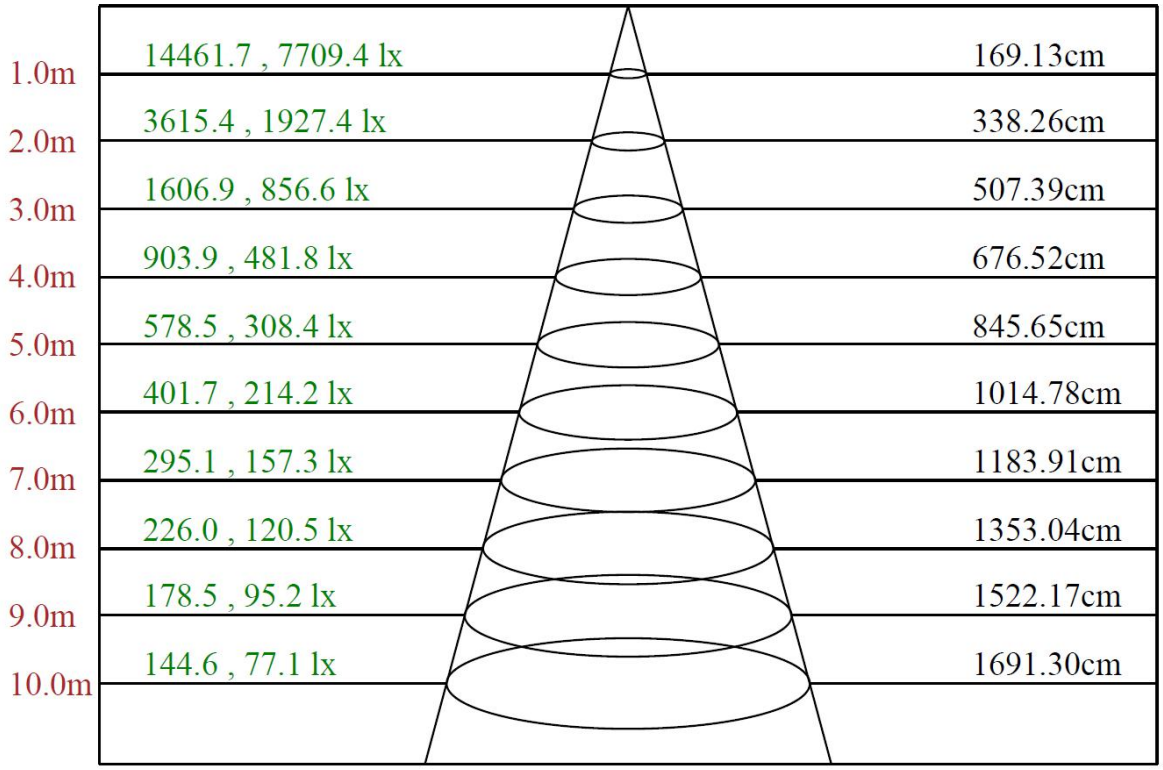
Field angle(10%Imax):C0/180Left:60.0 Right:59.8

:C90/270Left:58.9 Right:60.7

Beam Angle(50%Imax):C0/180Left:41.0 Right:38.8

:C90/270Left:39.8 Right:40.5

Lux distance Curve



Max , Ave Beam angle of C270 plane 80.44

UGR Glare

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	24.46	25.75	24.83	26.07	26.39	25.29	26.58	25.66	26.89	27.21
	3H	25.22	26.37	25.61	26.71	27.06	25.99	27.14	26.38	27.48	27.83
	4H	25.51	26.58	25.92	26.93	27.31	26.26	27.32	26.66	27.68	28.05
	6H	25.69	26.67	26.11	27.05	27.45	26.45	27.43	26.87	27.81	28.21
	8H	25.69	26.63	26.11	27.01	27.42	26.46	27.40	26.88	27.79	28.19
	12H	25.65	26.54	26.07	26.94	27.36	26.43	27.32	26.85	27.72	28.13
4H	2H	24.67	25.73	25.07	26.09	26.46	25.40	26.47	25.80	26.82	27.19
	3H	25.58	26.47	26.01	26.86	27.28	26.27	27.15	26.69	27.55	27.97
	4H	26.03	26.80	26.47	27.22	27.67	26.71	27.48	27.15	27.90	28.35
	6H	26.24	26.92	26.71	27.37	27.82	26.97	27.65	27.44	28.10	28.55
	8H	26.28	26.91	26.76	27.37	27.84	27.03	27.66	27.51	28.12	28.59
	12H	26.27	26.85	26.76	27.30	27.82	27.03	27.61	27.52	28.06	28.58
8H	4H	26.12	26.75	26.60	27.20	27.68	26.75	27.38	27.24	27.84	28.32
	6H	26.39	26.91	26.89	27.39	27.90	27.09	27.62	27.60	28.09	28.61
	8H	26.51	26.96	27.03	27.48	27.98	27.24	27.70	27.77	28.22	28.71
	12H	26.51	26.88	27.04	27.39	27.92	27.26	27.63	27.80	28.15	28.67
12H	4H	26.11	26.70	26.60	27.15	27.67	26.73	27.32	27.22	27.77	28.29
	6H	26.44	26.90	26.97	27.42	27.91	27.13	27.58	27.66	28.10	28.60
	8H	26.53	26.90	27.07	27.42	27.94	27.25	27.62	27.79	28.14	28.66
Variation with the observer position at spacings:											
S = 1.0H		0.8/-1.4					1.0/-1.6				
S = 1.5H		1.7/-2.4					1.9/-2.5				
S = 2.0H		4.0/-3.0					4.1/-3.1				
Standard tables:		BK2					BK2				
Uncorrected UGR		10.5					10.0				

UGR calculation is based on CIE Publ. 117 ,S/H = 1

Luminous Intensity Distribution Data

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	14461.74	14229.00	13999.67	13578.07	13024.43	12292.42	11106.38	9202.23	6672.63
22.5	14461.74	14242.90	13967.24	13578.07	13026.75	12264.63	11115.65	9311.11	6934.40
45.0	14461.74	14296.18	13953.34	13603.55	13082.34	12301.69	11094.80	9327.32	7043.27
67.5	14461.74	14317.03	14034.42	13693.90	13170.37	12366.55	11205.99	9350.49	6943.66
90.0	14461.74	14511.62	14328.61	13988.09	13490.04	12839.11	11757.32	10017.63	7534.37
112.5	14461.74	14518.56	14317.03	14018.20	13615.13	12968.84	11884.72	10091.76	7599.23
135.0	14461.74	14483.82	14384.21	14152.56	13742.54	13198.17	12183.55	10469.35	7645.56
157.5	14461.74	14486.13	14435.17	14210.47	13876.90	13383.49	12537.97	10779.76	7879.52
180.0	14461.74	14513.93	14414.32	14303.13	13955.66	13476.15	12688.54	11032.25	7851.72
202.5	14461.74	14458.34	14423.59	14238.27	13967.24	13413.60	12663.06	10863.15	7805.39
225.0	14461.74	14395.79	14358.73	14127.08	13761.07	13265.35	12392.03	10367.42	7267.97
247.5	14461.74	14398.11	14252.17	14004.30	13571.12	12908.61	11796.70	9526.54	6429.40
270.0	14461.74	14560.26	14398.11	14164.14	13779.61	13172.69	12107.10	10184.42	7170.68
292.5	14461.74	14449.07	14203.52	13916.28	13480.78	12820.58	11574.31	9628.47	6876.48
315.0	14461.74	14351.78	14120.13	13770.34	13223.65	12500.91	11319.50	9264.78	6538.28
337.5	14461.74	14286.92	14025.15	13647.57	13121.72	12361.92	11099.43	9114.21	6556.81
360.0	14461.74	14229.00	13999.67	13578.07	13024.43	12292.42	11106.38	9202.23	6672.63

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	4467.80	3161.54	2141.36	1417.23	921.50	597.19	416.74	200.38	36.37
22.5	4591.74	3134.44	2092.48	1410.97	937.02	600.66	411.41	199.68	43.78
45.0	4597.76	3179.37	2099.43	1390.35	918.72	599.27	425.31	238.14	52.82
67.5	4577.14	3544.68	2386.91	1591.66	1044.97	667.84	465.38	266.86	60.00
90.0	5134.49	3452.72	2338.49	1530.04	989.14	626.38	441.75	235.59	44.48
112.5	5078.89	3413.34	2299.11	1539.30	990.30	636.34	461.21	238.60	41.70
135.0	5025.61	3320.68	2155.49	1437.38	931.92	616.88	434.57	209.41	35.67
157.5	4981.60	3160.84	2083.68	1370.20	888.37	580.28	409.79	180.45	22.24
180.0	4891.26	3258.14	2224.98	1444.33	919.64	595.57	419.98	168.87	20.62
202.5	4854.19	3014.90	2032.72	1323.87	849.92	563.37	392.88	141.54	10.19
225.0	4587.80	3005.64	1972.49	1268.28	827.45	548.54	368.55	126.71	6.95
247.5	4404.79	2950.04	1935.42	1233.53	804.52	542.98	374.81	121.15	3.71
270.0	4612.58	3151.35	2035.03	1294.68	849.69	538.35	358.82	121.62	7.88
292.5	4611.43	3010.27	2007.00	1359.08	869.61	555.96	394.27	149.18	10.89
315.0	4433.06	2951.43	1976.66	1302.79	862.66	561.05	389.63	160.30	15.75
337.5	4308.43	2840.01	1883.53	1295.38	839.96	543.45	378.75	181.84	24.32
360.0	4467.80	3161.54	2141.36	1417.23	921.50	597.19	416.74	200.38	36.37

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	2.55	2.55	1.85	2.32	3.24	4.17	5.79	7.64	10.19
22.5	2.78	3.01	2.78	2.32	3.01	4.17	5.56	7.41	9.96
45.0	2.78	2.78	3.01	3.01	3.01	3.94	5.10	7.18	9.50
67.5	2.32	2.09	2.32	2.32	3.24	4.17	5.56	6.95	9.27
90.0	1.62	1.85	2.09	2.09	3.01	3.71	5.33	7.18	9.27
112.5	1.85	1.85	1.85	2.55	3.01	3.94	5.56	6.95	9.27
135.0	1.85	1.62	2.09	2.32	3.01	3.94	5.33	6.49	9.03
157.5	2.09	2.09	2.09	2.32	3.24	4.17	5.33	6.95	8.80
180.0	2.32	2.32	2.32	2.78	3.48	4.63	5.56	6.95	8.57
202.5	2.55	2.55	2.78	3.01	3.71	5.10	5.10	6.95	8.80
225.0	2.55	2.32	2.55	3.01	3.01	3.94	5.56	6.95	9.27
247.5	2.32	2.55	2.55	2.55	3.24	4.17	5.33	7.18	9.03
270.0	2.09	2.09	2.09	2.78	3.01	4.17	5.56	7.64	9.96
292.5	2.09	1.85	1.85	2.32	3.24	4.17	5.56	7.18	9.96
315.0	2.09	2.55	1.85	2.55	3.24	4.17	5.56	7.64	9.96
337.5	2.32	2.55	2.09	2.55	3.01	4.17	5.79	7.64	10.42
360.0	2.55	2.55	1.85	2.32	3.24	4.17	5.79	7.64	10.19

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	13.20	15.75	19.00	21.54	24.09	26.18	27.34	27.57	28.49
22.5	12.51	15.75	18.30	21.31	23.86	25.95	26.87	27.80	28.96
45.0	12.51	15.06	18.07	21.08	23.63	25.71	26.87	27.57	28.49
67.5	11.81	14.36	17.84	20.62	23.63	25.48	26.64	27.10	28.26
90.0	12.05	15.06	18.07	21.78	24.79	26.87	27.80	28.26	28.96
112.5	11.58	14.36	17.37	20.62	23.86	26.18	27.10	27.57	28.72
135.0	11.58	13.90	16.91	20.39	22.93	25.02	26.41	27.34	28.26
157.5	11.12	13.67	16.68	19.69	22.01	23.86	25.71	26.64	27.80
180.0	10.89	13.44	16.22	19.23	21.78	24.09	25.02	26.18	27.57
202.5	11.81	13.90	16.45	19.00	21.78	23.86	24.79	25.95	27.80
225.0	11.58	14.36	16.68	19.69	22.01	24.09	25.48	26.18	27.57
247.5	11.58	14.36	17.37	20.15	22.70	24.56	25.71	26.87	27.57
270.0	12.97	15.98	19.23	22.70	25.95	27.80	28.72	29.19	29.88
292.5	12.97	15.52	18.76	22.01	24.79	27.10	28.03	28.49	29.42
315.0	12.74	15.52	18.53	21.78	24.56	26.87	27.57	28.49	29.19
337.5	12.97	15.98	18.76	21.54	24.32	26.41	27.10	27.80	28.72
360.0	13.20	15.75	19.00	21.54	24.09	26.18	27.34	27.57	28.49

C/γ(°)	180.0
0.0	30.47
22.5	30.47
45.0	30.47
67.5	30.47
90.0	30.47
112.5	30.47
135.0	30.47
157.5	30.47
180.0	30.47
202.5	30.47
225.0	30.47
247.5	30.47
270.0	30.47
292.5	30.47
315.0	30.47
337.5	30.47
360.0	30.47

4 Additional Test

Electrical data

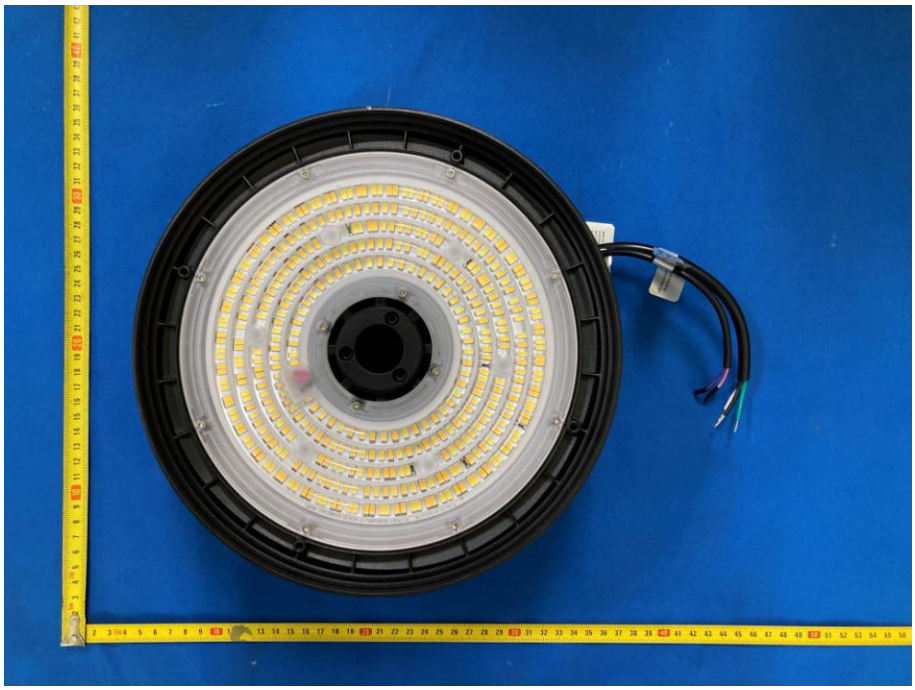
Model Number	CCT	Test Voltage (V)	Frequency (Hz)	Power Factor	THD(%)
HB08-150L-[C;CS;CP;CM;CI;CMB;CIB;CSP;CSM;CSI;CSMB;CSIB]-3CCT	4000	120	60	0.998	3.1
		277	60	0.948	6.7
	5000	277	60	0.948	6.5
	5700	277	60	0.949	6.2

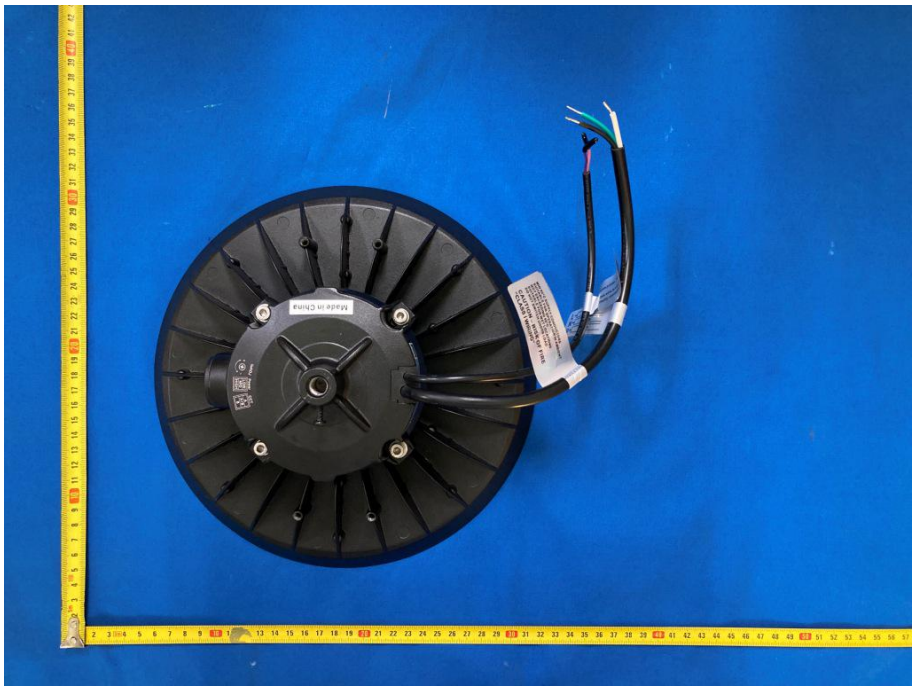
5 Data reporting for white-tunable submissions

(HB08-150L-[C;CS;CP;CM;CI;CMB;CIB;CSP;CSM;CSI;CSMB;CSIB]-3CCT)

ANSI CCT Quadrangle (omit any outside product range) / Worst-Case Value	Actual CCT (K)	Power Consumption (W)	Lumen Output (lm)	Input Control Signal Applied
4000K	4056	147.85	24424.18	0%
5000K	4774	144.26	25057.43	50%
5700K	5954	147.71	24889.04	100%
Lowest Efficacy	4056	147.85	24424.18	0%
Maximum Power	4056	147.85	24424.18	0%

Photo Document





****End of test report****