

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1433354

Luminaire Tested: EHBR1-60-UNV-A1-L850

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1433354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-60-UNV-A1-L850
Description: Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with A lens
Light Source: -
Ballast/Driver: -

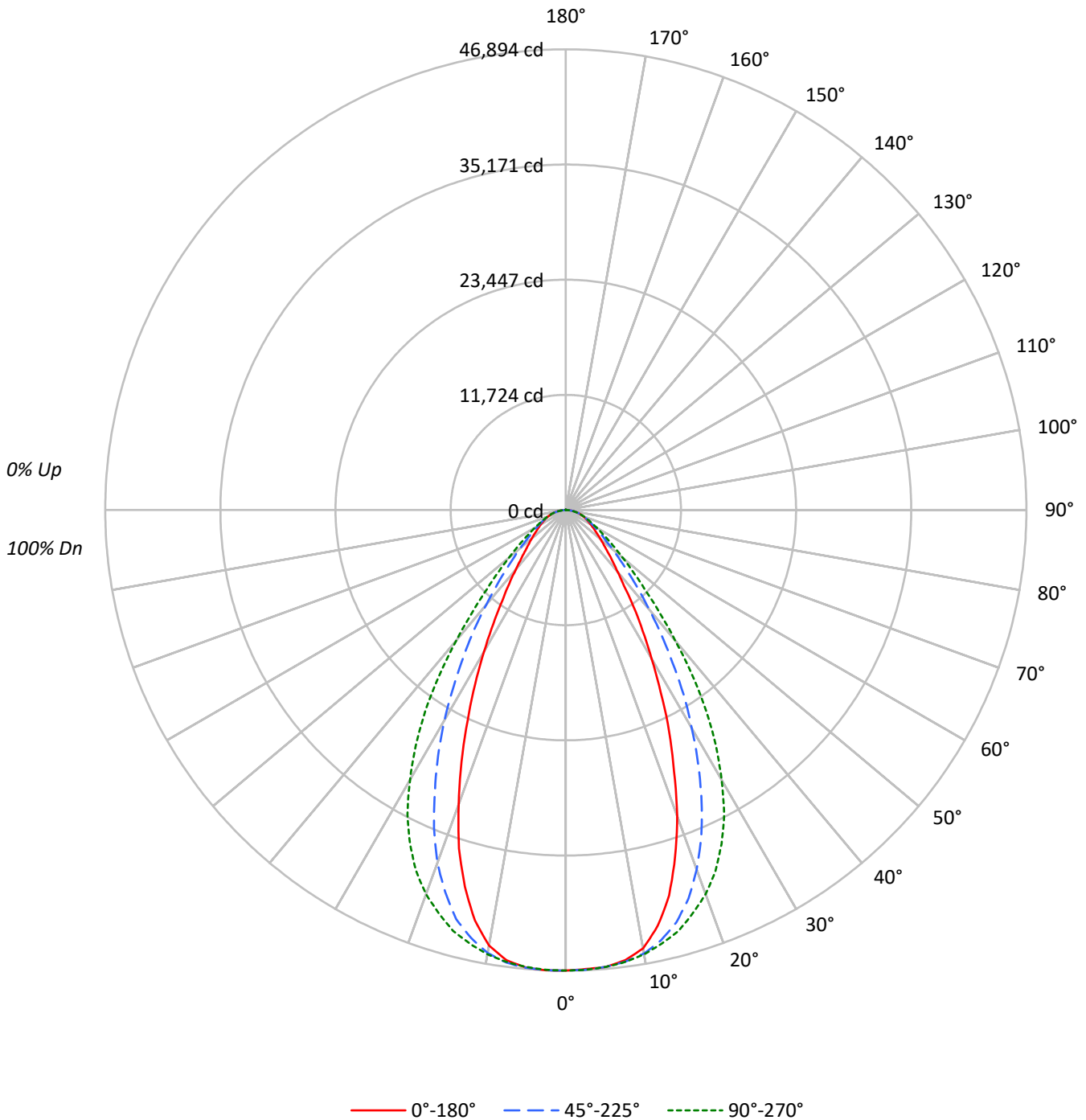
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58232.7 lumens
Efficiency: N/A
Efficacy: 176.2 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 1.07 / 0.95
Luminous Opening: Circular (Dia: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 330.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1433354
CATALOG NUMBER: EHBR1-60-UNV-A1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P1433354
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	98	90	83	78	95	88	82	78	85	81	77	83	79	75	80	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	220126	220126	220126	220126	220126
5°	220097	220064	220074	220462	220328
10°	216068	218587	218934	218316	214655
15°	197477	211257	215605	209563	192943
20°	165716	194629	207926	190965	159265
25°	129110	169537	194321	163346	122420
30°	94863	139172	172061	133891	90039
35°	68981	108210	142649	103549	64478
40°	50116	80709	106161	77302	48569
45°	39935	59712	74982	57123	38554
50°	33575	45460	54992	43961	33065
55°	29797	36476	42321	35867	29395
60°	27423	31075	34413	30882	27617
65°	26346	28156	29705	28244	26597
70°	25989	26610	27432	26758	26246
75°	25723	25562	25723	25632	25972
80°	25862	24001	23471	24375	25862
85°	23331	19785	19575	20103	24020

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 78561 cd/sqm



TEST NUMBER: P1433354
 CATALOG NUMBER: EHBR1-60-UNV-A1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4426.5	7.6
10°-20°	11897.0	20.4
20°-30°	14466.7	24.8
30°-40°	11784.2	20.2
40°-50°	7075.2	12.1
50°-60°	4071.8	7.0
60°-70°	2548.3	4.4
70°-80°	1500.8	2.6
80°-90°	438.9	0.8
90°-100°	0.2	0.0
100°-110°	0.3	0.0
110°-120°	0.3	0.0
120°-130°	0.7	0.0
130°-140°	3.0	0.0
140°-150°	5.4	0.0
150°-160°	5.9	0.0
160°-170°	5.3	0.0
170°-180°	2.3	0.0
0°-30°	30790.2	52.9
0°-40°	42574.3	73.1
0°-60°	53721.4	92.3
0°-90°	58209.5	100.0
90°-120°	0.7	0.0
90°-150°	9.8	0.0
90°-180°	23.0	0.0
0°-180°	58232.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46874	46874	46874	46874	46874	
5°	46690	46683	46685	46767	46739	4413
15°	40618	43453	44347	43104	39686	11175
25°	24917	32719	37502	31524	23626	11353
35°	12032	18875	24883	18062	11247	7613
45°	6013	8991	11290	8601	5805	4743
55°	3639	4455	5169	4381	3590	3290
65°	2371	2534	2673	2542	2394	2357
75°	1418	1409	1418	1413	1431	1502
85°	433	367	363	373	446	462
90°	2	0	0	0	1	22
95°	2	0	0	0	1	1
105°	2	0	0	0	2	2
115°	2	0	0	0	2	2
125°	3	0	0	1	3	2
135°	5	4	4	4	5	4
145°	9	8	8	9	10	6
155°	15	12	10	13	16	7
165°	23	19	17	20	23	6
175°	30	26	22	26	30	3
180°	26	26	26	26	26	



TEST NUMBER: P1433354
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	46874.3	46874.3	46874.3	46874.3	46874.3	46874.3	46874.3	46874.3	46874.3
2.5°	46771.1	46813.4	46831.1	46840.9	46851.7	46881.2	46893.9	46873.3	46891.0
5°	46689.7	46692.6	46682.8	46727.0	46684.8	46714.3	46767.2	46746.6	46738.8
7.5°	46214.5	46312.7	46370.7	46385.3	46393.1	46429.5	46466.8	46255.7	46224.3
10°	45311.2	45475.3	45839.5	45943.5	45912.1	45971.1	45782.5	45230.8	45014.8
12.5°	43331.1	43907.3	44853.8	45275.0	45198.4	45250.4	44608.3	43444.0	42774.4
15°	40618.5	41463.8	43452.8	44283.4	44347.2	44283.4	43104.3	40835.4	39685.8
17.5°	37012.5	38573.4	41502.1	43114.1	43021.8	43052.2	40813.9	37460.1	36144.6
20°	33160.0	34824.1	38945.5	41634.6	41606.1	41435.3	38212.2	33789.4	31869.0
22.5°	28802.9	30949.1	36015.9	39815.4	39804.6	39519.9	35044.0	29780.8	27713.2
25°	24917.1	27022.0	32719.2	37586.8	37502.3	37178.4	31524.4	25782.0	23626.1
27.5°	20899.8	23088.1	29199.6	34975.3	34917.3	34563.9	28159.9	22044.5	19992.7
30°	17494.1	19494.8	25665.2	32101.7	31730.5	31690.3	24691.3	18583.7	16604.5
32.5°	14576.3	16291.3	22333.2	29096.5	28439.7	28627.2	21234.6	15689.6	13727.9
35°	12032.5	13543.5	18875.4	25621.0	24882.7	25125.3	18062.4	12873.8	11247.0
37.5°	9765.6	11218.6	15944.8	22240.8	21111.8	21569.3	15272.3	10751.3	9447.5
40°	8175.1	9327.7	13165.5	18531.8	17317.3	18062.4	12609.8	8967.4	7922.8
42.5°	7044.2	7796.2	10866.1	14990.5	14058.9	14587.1	10392.9	7496.7	6715.3
45°	6013.2	6613.1	8991.0	11829.2	11290.3	11780.1	8601.2	6392.2	5805.2
47.5°	5252.5	5714.8	7401.5	9552.6	9217.8	9372.9	7183.6	5578.4	5101.3
50°	4595.6	4953.0	6222.4	7709.8	7527.2	7622.5	6017.2	4853.8	4525.9
52.5°	4085.1	4347.3	5219.1	6336.3	6246.0	6260.7	5127.7	4269.7	4032.1
55°	3639.4	3822.0	4455.2	5190.6	5169.0	5172.9	4380.7	3783.7	3590.3
57.5°	3249.6	3400.8	3828.9	4360.0	4328.6	4335.5	3793.5	3360.5	3235.9
60°	2919.8	3020.9	3308.6	3684.5	3664.0	3655.1	3288.0	2983.5	2940.4
62.5°	2627.2	2692.0	2891.3	3158.3	3119.1	3127.9	2890.3	2694.9	2631.1
65°	2371.0	2393.6	2533.9	2698.9	2673.3	2694.9	2541.8	2408.3	2393.6
67.5°	2120.6	2143.2	2225.7	2336.6	2307.1	2324.8	2227.7	2149.1	2136.3
70°	1892.8	1891.8	1938.0	1997.9	1997.9	2000.8	1948.8	1901.6	1911.5
72.5°	1657.2	1651.3	1665.1	1705.3	1694.6	1731.8	1676.9	1662.1	1664.1
75°	1417.7	1401.0	1408.8	1429.4	1417.7	1437.3	1412.7	1431.4	1431.4
77.5°	1191.8	1160.5	1150.7	1153.6	1132.0	1161.5	1167.3	1180.0	1209.5
80°	956.3	912.1	887.5	886.5	867.9	886.5	901.3	927.8	956.3
82.5°	709.8	671.5	630.2	622.5	610.7	621.5	641.0	672.5	718.7
85°	433.0	392.7	367.2	353.4	363.3	363.3	373.1	417.3	445.8
87.5°	156.1	136.4	111.9	112.9	115.8	119.7	124.7	157.1	171.8
90°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
92.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
95°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
97.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
100°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
102.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
105°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
107.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
110°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0



TEST NUMBER: P1433354
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
115°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
117.5°	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
120°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
122.5°	2.9	1.0	0.0	0.0	0.0	0.0	0.0	1.0	2.9
125°	2.9	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.9
127.5°	2.9	1.0	0.0	0.0	0.0	0.0	1.0	2.0	2.9
130°	2.9	2.0	1.0	0.0	1.0	1.0	2.0	2.0	2.9
132.5°	3.9	2.9	2.9	2.0	2.0	2.9	2.9	3.9	3.9
135°	4.9	3.9	3.9	2.9	3.9	3.9	3.9	3.9	4.9
137.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.9
140°	6.9	5.9	5.9	5.9	5.9	5.9	5.9	6.9	6.9
142.5°	7.9	7.9	6.9	6.9	6.9	7.9	7.9	7.9	8.8
145°	8.8	8.8	7.9	7.9	7.9	8.8	8.8	9.8	9.8
147.5°	11.8	10.8	8.8	8.8	8.8	8.8	9.8	10.8	11.8
150°	12.8	11.8	9.8	9.8	9.8	9.8	10.8	12.8	13.8
152.5°	13.8	12.8	10.8	9.8	9.8	9.8	11.8	12.8	14.7
155°	14.7	13.8	11.8	9.8	9.8	10.8	12.8	14.7	15.7
157.5°	17.7	15.7	13.8	11.8	11.8	12.8	14.7	16.7	17.7
160°	19.6	17.7	15.7	13.8	13.8	14.7	16.7	18.7	19.6
162.5°	21.6	19.6	16.7	15.7	14.7	15.7	17.7	20.6	21.6
165°	22.6	20.6	18.7	16.7	16.7	16.7	19.6	21.6	22.6
167.5°	23.6	22.6	19.6	17.7	17.7	17.7	20.6	22.6	23.6
170°	24.6	23.6	20.6	18.7	17.7	18.7	21.6	23.6	24.6
172.5°	26.5	25.5	22.6	20.6	19.6	20.6	23.6	25.5	26.5
175°	29.5	27.5	25.5	22.6	21.6	22.6	25.5	27.5	29.5
177.5°	30.5	28.5	26.5	23.6	22.6	23.6	26.5	28.5	30.5
180°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	21.13	22.39	21.49	22.71	23.02	22.11	23.37	22.47	23.69	24.00
	3H	22.69	23.82	23.07	24.15	24.52	23.45	24.58	23.83	24.91	25.27
	4H	23.36	24.41	23.77	24.76	25.15	24.01	25.06	24.41	25.41	25.80
	6H	23.92	24.88	24.33	25.25	25.65	24.44	25.41	24.86	25.78	26.17
	8H	24.12	25.03	24.55	25.42	25.83	24.58	25.49	25.01	25.88	26.29
	12H	24.24	25.12	24.68	25.50	25.93	24.66	25.53	25.09	25.91	26.34
4H	2H	21.70	22.75	22.10	23.10	23.49	22.47	23.52	22.87	23.87	24.25
	3H	23.49	24.35	23.90	24.76	25.16	24.06	24.92	24.47	25.33	25.73
	4H	24.28	25.06	24.72	25.48	25.92	24.75	25.53	25.19	25.95	26.39
	6H	24.97	25.64	25.43	26.08	26.55	25.33	25.99	25.79	26.44	26.91
	8H	25.22	25.84	25.69	26.29	26.76	25.51	26.13	25.98	26.58	27.05
	12H	25.39	25.94	25.87	26.42	26.90	25.63	26.18	26.12	26.66	27.14
8H	4H	24.57	25.19	25.04	25.64	26.11	24.99	25.61	25.46	26.06	26.53
	6H	25.38	25.89	25.89	26.39	26.87	25.69	26.20	26.19	26.69	27.18
	8H	25.71	26.17	26.24	26.68	27.18	25.95	26.40	26.47	26.92	27.42
	12H	25.96	26.36	26.48	26.86	27.43	26.14	26.54	26.66	27.04	27.61
12H	4H	24.58	25.13	25.07	25.62	26.09	25.00	25.55	25.49	26.04	26.51
	6H	25.43	25.89	25.95	26.40	26.90	25.73	26.19	26.26	26.70	27.20
	8H	25.82	26.22	26.33	26.71	27.29	26.05	26.45	26.57	26.95	27.52

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-4

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L850-N

Data in this report applies to families of products including EHBR-60-L850-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/05/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Metalux
 Catalog Number: **EHBR-60-L850-N**
 Description: Elevate Round Highbay at, 60000 lumens, 5000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K): 4875
 CIE u': 0.2124
 CIE v': 0.4871
 Duv: 0.0005
 CIE x: 0.3488
 CIE y: 0.3555
 CIE z: 0.2957
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 573
 Purity: 11.33556
 Rf: 80
 Rg: 102.3

CRI (Ra):	82.3		
R1:	85.0	R9:	43.9
R2:	83.1	R10:	57.4
R3:	78.8	R11:	83.1
R4:	84.0	R12:	51.0
R5:	83.0	R13:	83.4
R6:	76.3	R14:	87.4
R7:	86.8	R15:	83.4
R8:	81.7		



Test Conditions

Stabilization Time: 39M
 Operation Time: 1H 39M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-4

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2506-472-4

CIE 1931 Chromaticity Diagram



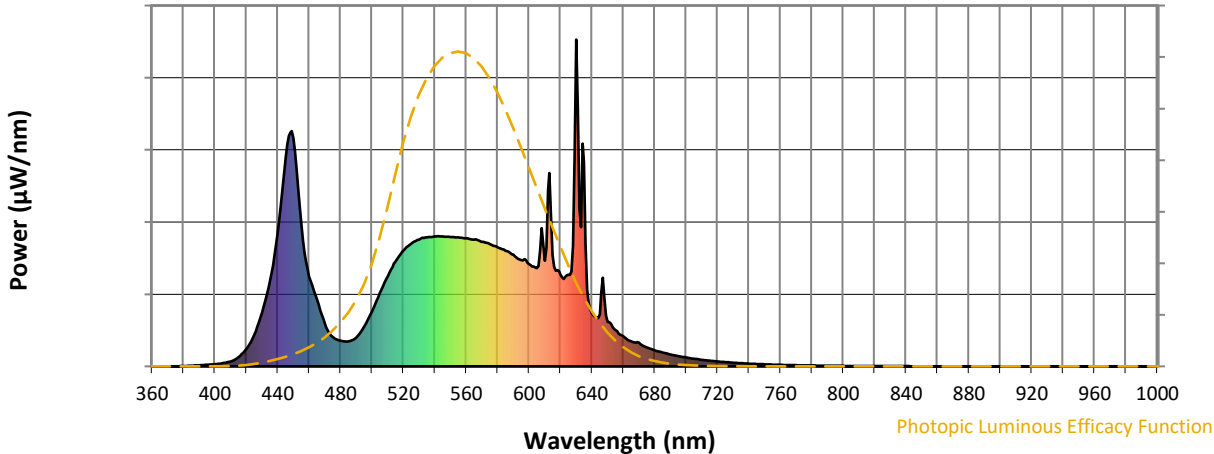
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-4

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.82

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.71

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

Summary

$R_f = 80$
 $R_g = 102.3$
 $CIE R_a = 82.3$
 $R_9 = 43.9$



Color Vector Graphics

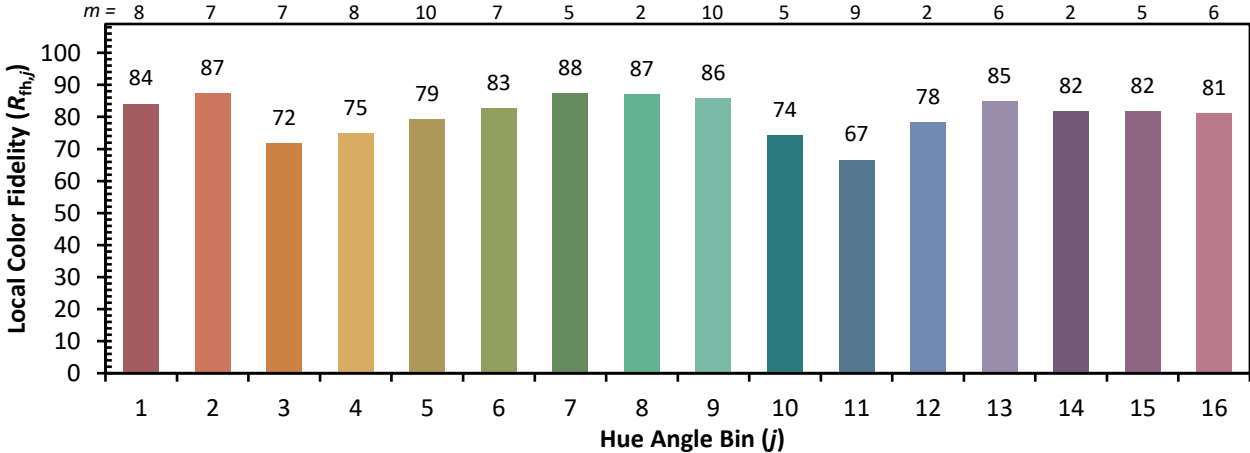


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 67	CES51 = 92	CES76 = 54
CES02 = 60	CES27 = 88	CES52 = 91	CES77 = 71
CES03 = 31	CES28 = 81	CES53 = 82	CES78 = 55
CES04 = 69	CES29 = 66	CES54 = 92	CES79 = 81
CES05 = 47	CES30 = 80	CES55 = 90	CES80 = 75
CES06 = 50	CES31 = 69	CES56 = 81	CES81 = 79
CES07 = 40	CES32 = 61	CES57 = 80	CES82 = 90
CES08 = 39	CES33 = 76	CES58 = 81	CES83 = 87
CES09 = 29	CES34 = 68	CES59 = 93	CES84 = 87
CES10 = 73	CES35 = 82	CES60 = 94	CES85 = 82
CES11 = 56	CES36 = 95	CES61 = 91	CES86 = 83
CES12 = 62	CES37 = 75	CES62 = 89	CES87 = 78
CES13 = 42	CES38 = 87	CES63 = 80	CES88 = 85
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 81
CES15 = 71	CES40 = 87	CES65 = 75	CES90 = 86
CES16 = 46	CES41 = 91	CES66 = 72	CES91 = 80
CES17 = 48	CES42 = 71	CES67 = 69	CES92 = 77
CES18 = 56	CES43 = 72	CES68 = 75	CES93 = 86
CES19 = 70	CES44 = 99	CES69 = 80	CES94 = 71
CES20 = 65	CES45 = 81	CES70 = 66	CES95 = 79
CES21 = 85	CES46 = 83	CES71 = 59	CES96 = 86
CES22 = 77	CES47 = 83	CES72 = 87	CES97 = 85
CES23 = 91	CES48 = 83	CES73 = 56	CES98 = 82
CES24 = 90	CES49 = 82	CES74 = 95	CES99 = 84
CES25 = 71	CES50 = 91	CES75 = 58	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)