

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: P1432362

Luminaire Tested: EHBR1-30-UNV-A1-L830

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1432362
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: EHBR1-30-UNV-A1-L830
Description: Elevate Round Highbay at, 30000 lumens, 3000K 80CRI LEDs with A lens
Light Source: -
Ballast/Driver: -

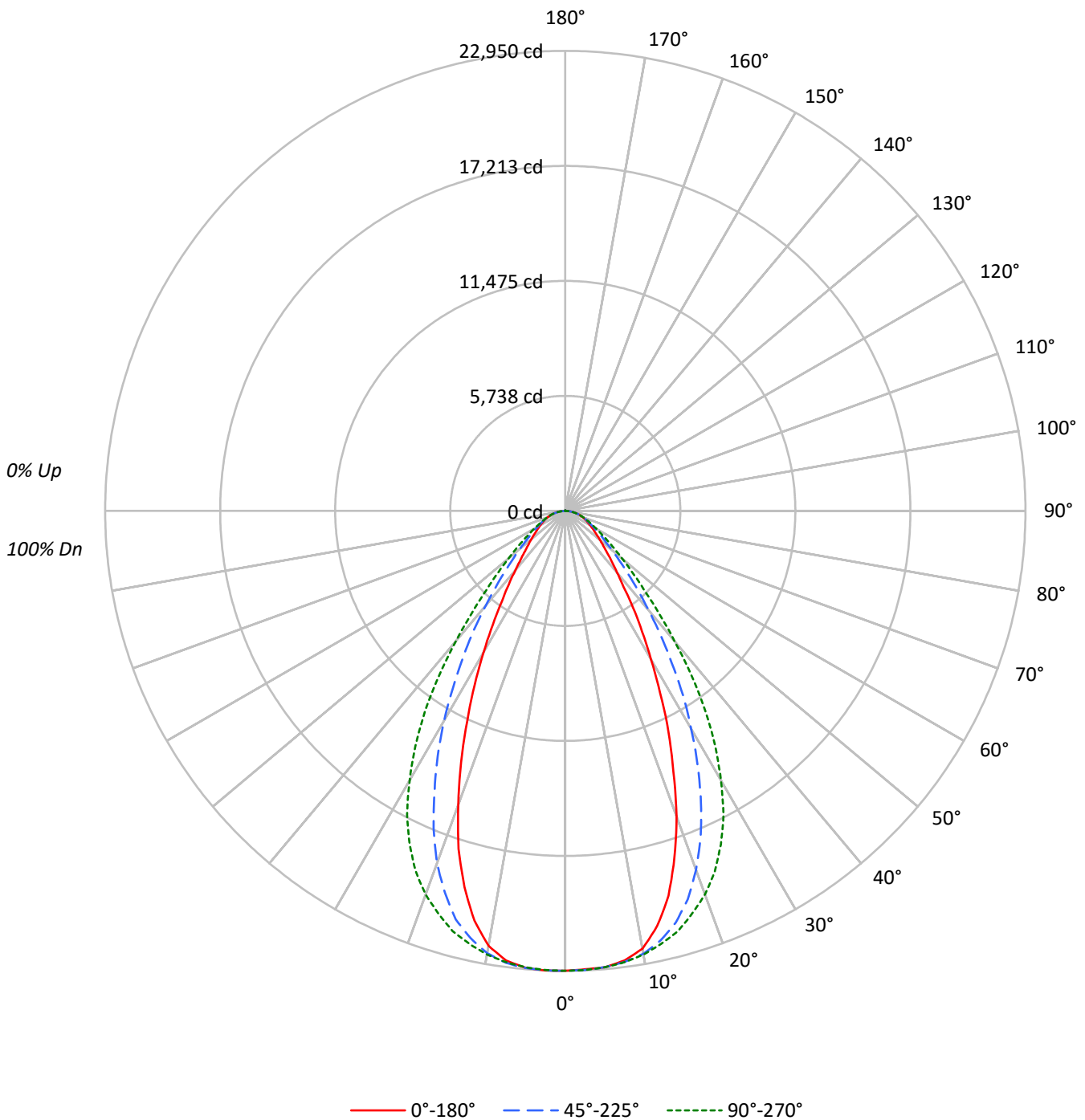
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28499.3 lumens
Efficiency: N/A
Efficacy: 178.3 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): 159.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P1432362
CATALOG NUMBER: EHBR1-30-UNV-A1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P1432362
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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	92	90	
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	80	
3	98	90	83	78	95	88	82	78	85	81	77	83	79	75	80	77	74	74	72	
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	67	65	
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	61	60	
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	56	55	
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	52	50	
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	48	46	
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	45	43	
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	42	40	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	107731	107731	107731	107731	107731
5°	107717	107701	107705	107895	107830
10°	105745	106978	107147	106845	105053
15°	96646	103390	105518	102561	94427
20°	81103	95253	101760	93459	77945
25°	63187	82972	95102	79942	59913
30°	46427	68111	84208	65526	44066
35°	33759	52959	69814	50677	31556
40°	24527	39499	51956	37832	23770
45°	19545	29223	36697	27956	18868
50°	16432	22248	26913	21514	16182
55°	14583	17852	20712	17553	14386
60°	13420	15208	16841	15113	13516
65°	12894	13780	14538	13822	13016
70°	12720	13023	13424	13096	12845
75°	12589	12511	12589	12545	12712
80°	12656	11748	11485	11929	12656
85°	11418	9683	9580	9839	11757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 38448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2166.4	7.6
10°-20°	5822.4	20.4
20°-30°	7080.0	24.8
30°-40°	5767.2	20.2
40°-50°	3462.6	12.1
50°-60°	1992.8	7.0
60°-70°	1247.1	4.4
70°-80°	734.5	2.6
80°-90°	214.8	0.8
90°-100°	0.1	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.3	0.0
130°-140°	1.5	0.0
140°-150°	2.6	0.0
150°-160°	2.9	0.0
160°-170°	2.6	0.0
170°-180°	1.1	0.0
0°-30°	15068.9	52.9
0°-40°	20836.1	73.1
0°-60°	26291.5	92.3
0°-90°	28488.0	100.0
90°-120°	0.3	0.0
90°-150°	4.8	0.0
90°-180°	11.0	0.0
0°-180°	28499.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22940	22940	22940	22940	22940	
5°	22850	22847	22848	22888	22874	2160
15°	19879	21266	21704	21095	19422	5469
25°	12194	16013	18354	15428	11563	5556
35°	5889	9238	12178	8840	5504	3726
45°	2943	4400	5526	4210	2841	2321
55°	1781	2180	2530	2144	1757	1610
65°	1160	1240	1308	1244	1171	1154
75°	694	690	694	691	701	735
85°	212	180	178	183	218	226
90°	1	0	0	0	0	11
95°	1	0	0	0	0	1
105°	1	0	0	0	1	1
115°	1	0	0	0	1	1
125°	1	0	0	0	1	1
135°	2	2	2	2	2	2
145°	4	4	4	4	5	3
155°	7	6	5	6	8	3
165°	11	9	8	10	11	3
175°	14	12	11	12	14	1
180°	13	13	13	13	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	22940.5	22940.5	22940.5	22940.5	22940.5	22940.5	22940.5	22940.5	22940.5
2.5°	22890.1	22910.7	22919.3	22924.2	22929.4	22943.8	22950.1	22940.0	22948.6
5°	22850.2	22851.6	22846.8	22868.4	22847.7	22862.2	22888.1	22878.0	22874.2
7.5°	22617.6	22665.6	22694.0	22701.2	22705.1	22722.9	22741.0	22637.8	22622.4
10°	22175.6	22255.8	22434.1	22485.0	22469.6	22498.4	22406.2	22136.1	22030.5
12.5°	21206.4	21488.5	21951.7	22157.8	22120.3	22145.8	21831.5	21261.7	20934.0
15°	19878.8	20292.6	21266.0	21672.5	21703.7	21672.5	21095.4	19985.1	19422.4
17.5°	18114.1	18878.1	20311.3	21100.2	21055.1	21070.0	19974.5	18333.2	17689.4
20°	16228.7	17043.0	19060.2	20376.1	20362.3	20278.6	18701.2	16536.7	15596.9
22.5°	14096.3	15146.7	17626.4	19485.8	19480.5	19341.3	17150.7	14574.8	13563.0
25°	12194.5	13224.7	16012.9	18395.2	18353.9	18195.3	15428.2	12617.8	11562.7
27.5°	10228.5	11299.4	14290.4	17117.0	17088.8	16915.7	13781.6	10788.6	9784.5
30°	8561.7	9540.8	12560.7	15710.7	15529.1	15509.4	12084.0	9095.0	8126.3
32.5°	7133.7	7973.1	10930.0	14239.9	13918.6	14010.3	10392.3	7678.6	6718.5
35°	5888.7	6628.2	9237.7	12539.1	12177.8	12296.5	8839.8	6300.5	5504.4
37.5°	4779.4	5490.4	7803.4	10884.7	10332.3	10556.1	7474.4	5261.8	4623.7
40°	4001.0	4565.1	6443.2	9069.5	8475.2	8839.8	6171.3	4388.7	3877.5
42.5°	3447.5	3815.5	5318.0	7336.4	6880.5	7138.9	5086.3	3668.9	3286.4
45°	2943.0	3236.5	4400.2	5789.3	5525.6	5765.3	4209.5	3128.4	2841.0
47.5°	2570.6	2796.8	3622.3	4675.0	4511.2	4587.2	3515.7	2730.0	2496.6
50°	2249.1	2424.0	3045.2	3773.3	3683.8	3730.4	2944.8	2375.5	2215.0
52.5°	1999.3	2127.5	2554.2	3101.0	3056.9	3064.0	2509.5	2089.6	1973.4
55°	1781.2	1870.5	2180.4	2540.3	2529.8	2531.6	2143.9	1851.8	1757.1
57.5°	1590.3	1664.3	1873.9	2133.8	2118.5	2121.8	1856.6	1644.7	1583.7
60°	1428.9	1478.4	1619.2	1803.3	1793.1	1788.8	1609.1	1460.1	1439.1
62.5°	1285.7	1317.5	1415.0	1545.7	1526.5	1530.8	1414.5	1318.9	1287.7
65°	1160.4	1171.4	1240.1	1320.9	1308.3	1318.9	1243.9	1178.7	1171.4
67.5°	1037.9	1048.9	1089.2	1143.5	1129.1	1137.8	1090.2	1051.7	1045.6
70°	926.4	925.8	948.5	977.7	977.7	979.2	953.8	930.7	935.5
72.5°	811.0	808.2	814.9	834.6	829.3	847.5	820.7	813.4	814.4
75°	693.8	685.7	689.5	699.5	693.8	703.5	691.4	700.6	700.6
77.5°	583.3	567.9	563.1	564.6	554.0	568.4	571.3	577.6	591.9
80°	468.0	446.3	434.4	433.9	424.7	433.9	441.1	454.0	468.0
82.5°	347.4	328.7	308.5	304.6	298.9	304.1	313.8	329.2	351.7
85°	211.9	192.2	179.7	173.0	177.8	177.8	182.6	204.2	218.2
87.5°	76.4	66.8	54.8	55.3	56.7	58.6	61.0	76.9	84.1
90°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
92.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
95°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
97.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
100°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
102.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
105°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
107.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
110°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
115°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
117.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
120°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9
122.5°	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.4
125°	1.4	0.5	0.0	0.0	0.0	0.0	0.5	0.5	1.4
127.5°	1.4	0.5	0.0	0.0	0.0	0.0	0.5	0.9	1.4
130°	1.4	0.9	0.5	0.0	0.5	0.5	0.9	0.9	1.4
132.5°	2.0	1.4	1.4	0.9	0.9	1.4	1.4	2.0	2.0
135°	2.4	2.0	2.0	1.4	2.0	2.0	2.0	2.0	2.4
137.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9
140°	3.4	2.9	2.9	2.9	2.9	2.9	2.9	3.4	3.4
142.5°	3.8	3.8	3.4	3.4	3.4	3.8	3.8	3.8	4.3
145°	4.3	4.3	3.8	3.8	3.8	4.3	4.3	4.8	4.8
147.5°	5.8	5.2	4.3	4.3	4.3	4.3	4.8	5.2	5.8
150°	6.3	5.8	4.8	4.8	4.8	4.8	5.2	6.3	6.7
152.5°	6.7	6.3	5.2	4.8	4.8	4.8	5.8	6.3	7.2
155°	7.2	6.7	5.8	4.8	4.8	5.2	6.3	7.2	7.7
157.5°	8.6	7.7	6.7	5.8	5.8	6.3	7.2	8.1	8.6
160°	9.6	8.6	7.7	6.7	6.7	7.2	8.1	9.1	9.6
162.5°	10.6	9.6	8.1	7.7	7.2	7.7	8.6	10.1	10.6
165°	11.1	10.1	9.1	8.1	8.1	8.1	9.6	10.6	11.1
167.5°	11.5	11.1	9.6	8.6	8.6	8.6	10.1	11.1	11.5
170°	12.0	11.5	10.1	9.1	8.6	9.1	10.6	11.5	12.0
172.5°	12.9	12.5	11.1	10.1	9.6	10.1	11.5	12.5	12.9
175°	14.4	13.5	12.5	11.1	10.6	11.1	12.5	13.5	14.4
177.5°	14.9	14.0	12.9	11.5	11.1	11.5	12.9	14.0	14.9
180°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9



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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	18.64	19.91	19.01	20.22	20.54	19.63	20.89	19.99	21.20	21.52
	3H	20.21	21.34	20.59	21.67	22.03	20.97	22.09	21.35	22.42	22.79
	4H	20.88	21.93	21.28	22.28	22.67	21.53	22.58	21.93	22.93	23.31
	6H	21.43	22.40	21.85	22.77	23.17	21.96	22.92	22.37	23.29	23.69
	8H	21.63	22.55	22.07	22.94	23.35	22.10	23.01	22.53	23.40	23.81
	12H	21.76	22.63	22.20	23.02	23.45	22.17	23.05	22.61	23.43	23.86
4H	2H	19.22	20.27	19.62	20.62	21.00	19.99	21.03	20.39	21.39	21.77
	3H	21.01	21.87	21.42	22.28	22.68	21.58	22.44	21.99	22.84	23.25
	4H	21.80	22.58	22.24	23.00	23.44	22.27	23.05	22.71	23.47	23.91
	6H	22.49	23.15	22.95	23.60	24.07	22.84	23.51	23.31	23.96	24.43
	8H	22.73	23.36	23.20	23.81	24.28	23.03	23.65	23.50	24.10	24.57
	12H	22.90	23.45	23.39	23.94	24.41	23.15	23.70	23.63	24.18	24.66
8H	4H	22.08	22.71	22.55	23.15	23.63	22.50	23.13	22.98	23.58	24.05
	6H	22.90	23.41	23.40	23.91	24.39	23.21	23.71	23.71	24.21	24.69
	8H	23.23	23.69	23.75	24.20	24.70	23.47	23.92	23.99	24.44	24.93
	12H	23.48	23.88	24.00	24.38	24.95	23.66	24.06	24.18	24.56	25.13
12H	4H	22.10	22.65	22.59	23.13	23.61	22.52	23.07	23.01	23.55	24.03
	6H	22.95	23.40	23.47	23.92	24.41	23.25	23.71	23.77	24.22	24.72
	8H	23.33	23.73	23.85	24.23	24.80	23.57	23.97	24.08	24.46	25.04

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

Data in this report applies to families of products including EHBR-60-L830-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-2
 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-L830-N**
 Description: Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K): 2983
 CIE u': 0.2516
 CIE v': 0.5201
 Duv: -0.0012
 CIE x: 0.4364
 CIE y: 0.4010
 CIE z: 0.1626
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 583
 Purity: 51.34918
 Rf: 81.2
 Rg: 101.5

CRI (Ra):	83.4		
R1:	84.0	R9:	29.4
R2:	87.5	R10:	68.6
R3:	88.9	R11:	82.2
R4:	83.8	R12:	61.6
R5:	81.9	R13:	83.9
R6:	83.1	R14:	92.5
R7:	87.1	R15:	79.8
R8:	70.9		



Test Conditions

Stabilization Time: 38M
 Operation Time: 1H 38M
 Sphere Temperature (°C): 25.0

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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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

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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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.34

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

Summary

$R_f = 81.2$
 $R_g = 101.5$
 CIE $R_a = 83.4$
 $R_9 = 29.4$



Color Vector Graphics



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

CES01 = 86	CES26 = 71	CES51 = 89	CES76 = 65
CES02 = 63	CES27 = 89	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 86	CES53 = 80	CES78 = 67
CES04 = 70	CES29 = 68	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 77	CES55 = 90	CES80 = 85
CES06 = 51	CES31 = 70	CES56 = 81	CES81 = 75
CES07 = 43	CES32 = 64	CES57 = 79	CES82 = 93
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 76	CES59 = 92	CES84 = 91
CES10 = 76	CES35 = 87	CES60 = 96	CES85 = 81
CES11 = 59	CES36 = 99	CES61 = 91	CES86 = 74
CES12 = 65	CES37 = 81	CES62 = 93	CES87 = 83
CES13 = 44	CES38 = 83	CES63 = 79	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 81	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 78	CES90 = 85
CES16 = 48	CES41 = 88	CES66 = 76	CES91 = 87
CES17 = 50	CES42 = 80	CES67 = 74	CES92 = 73
CES18 = 57	CES43 = 75	CES68 = 79	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 67	CES45 = 83	CES70 = 72	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 86
CES22 = 79	CES47 = 79	CES72 = 90	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 65	CES98 = 83
CES24 = 91	CES49 = 79	CES74 = 94	CES99 = 82
CES25 = 72	CES50 = 88	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)