

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: P1433217

Luminaire Tested: EHBR1-36-UNV-A1-L930

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1433217
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: EHBR1-36-UNV-A1-L930
Description: Elevate Round Highbay at, 36000 lumens, 3000K 90CRI LEDs with A lens
Light Source: -
Ballast/Driver: -

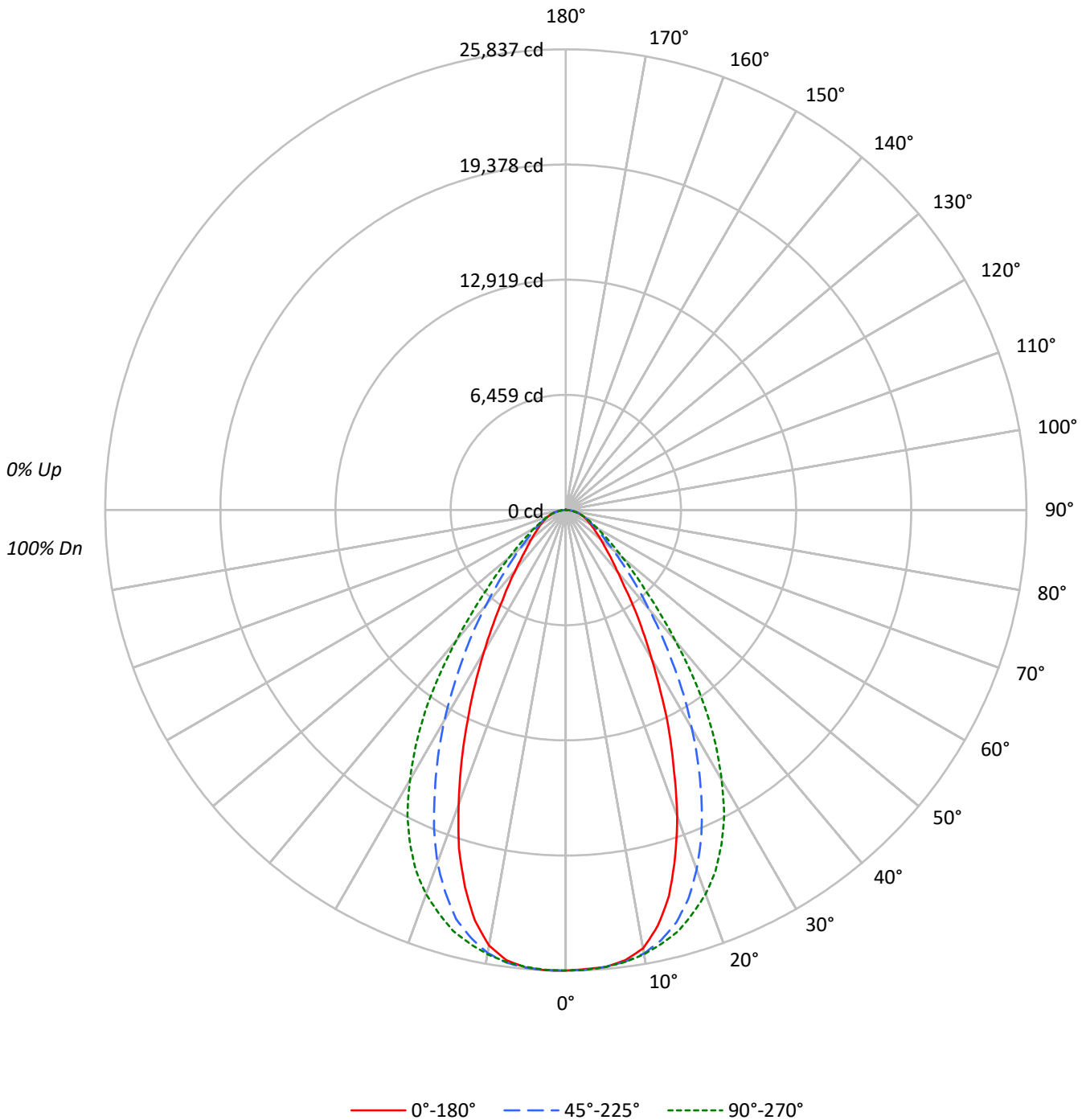
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32083.7 lumens
Efficiency: N/A
Efficacy: 167.6 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): 191.4
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: P1433217
CATALOG NUMBER: EHBR1-36-UNV-A1-L930

Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	121280	121280	121280	121280	121280
5°	121264	121246	121251	121466	121391
10°	119045	120432	120623	120283	118266
15°	108801	116394	118789	115460	106303
20°	91302	107232	114558	105213	87748
25°	71134	93408	107063	89997	67448
30°	52266	76677	94799	73768	49608
35°	38006	59619	78594	57051	35524
40°	27612	44467	58490	42590	26760
45°	22003	32899	41311	31472	21241
50°	18498	25047	30299	24220	18218
55°	16417	20097	23317	19761	16195
60°	15109	17120	18960	17014	15215
65°	14515	15513	16367	15561	14653
70°	14319	14661	15113	14742	14460
75°	14173	14084	14173	14124	14310
80°	14247	13224	12932	13427	14247
85°	12856	10900	10787	11078	13233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 43284 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2438.8	7.6
10°-20°	6554.7	20.4
20°-30°	7970.5	24.8
30°-40°	6492.6	20.2
40°-50°	3898.1	12.1
50°-60°	2243.4	7.0
60°-70°	1404.0	4.4
70°-80°	826.9	2.6
80°-90°	241.8	0.8
90°-100°	0.1	0.0
100°-110°	0.1	0.0
110°-120°	0.2	0.0
120°-130°	0.4	0.0
130°-140°	1.6	0.0
140°-150°	3.0	0.0
150°-160°	3.3	0.0
160°-170°	2.9	0.0
170°-180°	1.2	0.0
0°-30°	16964.1	52.9
0°-40°	23456.6	73.1
0°-60°	29598.2	92.3
0°-90°	32070.9	100.0
90°-120°	0.4	0.0
90°-150°	5.4	0.0
90°-180°	13.0	0.0
0°-180°	32083.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25826	25826	25826	25826	25826	
5°	25724	25720	25721	25767	25751	2431
15°	22379	23941	24433	23749	21865	6157
25°	13728	18027	20662	17369	13017	6255
35°	6629	10400	13709	9952	6197	4194
45°	3313	4954	6220	4739	3198	2613
55°	2005	2455	2848	2414	1978	1813
65°	1306	1396	1473	1400	1319	1299
75°	781	776	781	778	789	827
85°	239	202	200	206	246	255
90°	1	0	0	0	0	12
95°	1	0	0	0	0	1
105°	1	0	0	0	1	1
115°	1	0	0	0	1	1
125°	2	0	0	0	2	1
135°	3	2	2	2	3	2
145°	5	4	4	5	5	3
155°	8	6	5	7	9	4
165°	12	10	9	11	12	3
175°	16	14	12	14	16	1
180°	15	15	15	15	15	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	25825.7	25825.7	25825.7	25825.7	25825.7	25825.7	25825.7	25825.7	25825.7
2.5°	25768.9	25792.2	25801.9	25807.3	25813.3	25829.5	25836.6	25825.1	25834.9
5°	25724.0	25725.6	25720.2	25744.6	25721.3	25737.5	25766.8	25755.4	25751.0
7.5°	25462.2	25516.3	25548.2	25556.3	25560.7	25580.6	25601.2	25484.9	25467.6
10°	24964.6	25054.9	25255.5	25312.9	25295.6	25328.1	25224.2	24920.2	24801.2
12.5°	23873.6	24191.1	24712.5	24944.5	24902.4	24931.1	24577.3	23935.8	23566.8
15°	22379.0	22844.7	23940.7	24398.3	24433.4	24398.3	23748.6	22498.5	21865.2
17.5°	20392.2	21252.4	22865.9	23754.0	23703.2	23719.9	22486.7	20638.9	19914.1
20°	18269.7	19186.6	21457.3	22938.8	22923.2	22829.0	21053.3	18616.4	17558.4
22.5°	15869.2	17051.6	19843.3	21936.6	21930.6	21773.8	19307.7	16407.9	15268.8
25°	13728.3	14888.0	18026.9	20708.7	20662.2	20483.7	17368.6	14204.8	13017.0
27.5°	11514.9	12720.6	16087.8	19269.9	19237.9	19043.2	15514.9	12145.5	11015.0
30°	9638.5	10740.8	14140.4	17686.6	17482.2	17460.0	13603.9	10238.8	9148.4
32.5°	8030.9	8975.8	12304.6	16030.9	15669.0	15772.4	11699.3	8644.2	7563.6
35°	6629.4	7461.9	10399.5	14116.1	13709.3	13843.0	9951.6	7092.9	6196.6
37.5°	5380.4	6180.9	8784.9	12253.7	11631.7	11883.8	8414.4	5923.5	5205.1
40°	4504.2	5139.2	7253.6	10210.2	9541.1	9951.6	6947.4	4940.7	4365.2
42.5°	3881.0	4295.4	5986.8	8259.2	7745.8	8036.8	5726.0	4130.3	3699.8
45°	3313.1	3643.6	4953.7	6517.4	6220.4	6490.4	4738.9	3521.9	3198.4
47.5°	2893.9	3148.7	4077.9	5263.1	5078.6	5164.1	3957.8	3073.5	2810.6
50°	2532.0	2728.8	3428.3	4247.8	4147.2	4199.6	3315.2	2674.2	2493.6
52.5°	2250.8	2395.1	2875.4	3491.0	3441.2	3449.3	2825.2	2352.4	2221.5
55°	2005.2	2105.8	2454.6	2859.8	2847.9	2850.0	2413.6	2084.6	1978.1
57.5°	1790.4	1873.7	2109.5	2402.2	2384.9	2388.6	2090.1	1851.5	1782.8
60°	1608.7	1664.4	1822.8	2030.0	2018.7	2013.8	1811.5	1643.8	1620.0
62.5°	1447.5	1483.2	1593.0	1740.1	1718.5	1723.4	1592.5	1484.8	1449.6
65°	1306.3	1318.7	1396.1	1487.0	1472.9	1484.8	1400.4	1326.8	1318.7
67.5°	1168.4	1180.8	1226.2	1287.3	1271.1	1280.8	1227.3	1184.1	1177.0
70°	1042.9	1042.4	1067.8	1100.7	1100.7	1102.3	1073.7	1047.7	1053.1
72.5°	913.1	909.8	917.3	939.5	933.6	954.1	923.8	915.7	916.8
75°	781.1	771.9	776.2	787.6	781.1	791.9	778.4	788.7	788.7
77.5°	656.7	639.4	634.0	635.6	623.7	639.9	643.1	650.2	666.4
80°	526.8	502.5	489.0	488.4	478.2	488.4	496.5	511.2	526.8
82.5°	391.1	370.0	347.3	342.9	336.4	342.4	353.2	370.5	395.9
85°	238.6	216.4	202.3	194.7	200.2	200.2	205.6	229.9	245.6
87.5°	86.0	75.2	61.7	62.2	63.8	66.0	68.7	86.5	94.6
90°	1.1	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°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
97.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
100°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
102.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
105°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
107.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
110°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
115°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
117.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
120°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1
122.5°	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.6
125°	1.6	0.5	0.0	0.0	0.0	0.0	0.5	0.5	1.6
127.5°	1.6	0.5	0.0	0.0	0.0	0.0	0.5	1.1	1.6
130°	1.6	1.1	0.5	0.0	0.5	0.5	1.1	1.1	1.6
132.5°	2.1	1.6	1.6	1.1	1.1	1.6	1.6	2.1	2.1
135°	2.7	2.1	2.1	1.6	2.1	2.1	2.1	2.1	2.7
137.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.2
140°	3.7	3.2	3.2	3.2	3.2	3.2	3.2	3.7	3.7
142.5°	4.4	4.4	3.7	3.7	3.7	4.4	4.4	4.4	4.9
145°	4.9	4.9	4.4	4.4	4.4	4.9	4.9	5.4	5.4
147.5°	6.5	6.0	4.9	4.9	4.9	4.9	5.4	6.0	6.5
150°	7.0	6.5	5.4	5.4	5.4	5.4	6.0	7.0	7.6
152.5°	7.6	7.0	6.0	5.4	5.4	5.4	6.5	7.0	8.1
155°	8.1	7.6	6.5	5.4	5.4	6.0	7.0	8.1	8.6
157.5°	9.7	8.6	7.6	6.5	6.5	7.0	8.1	9.2	9.7
160°	10.8	9.7	8.6	7.6	7.6	8.1	9.2	10.2	10.8
162.5°	11.9	10.8	9.2	8.6	8.1	8.6	9.7	11.3	11.9
165°	12.5	11.3	10.2	9.2	9.2	9.2	10.8	11.9	12.5
167.5°	13.0	12.5	10.8	9.7	9.7	9.7	11.3	12.5	13.0
170°	13.5	13.0	11.3	10.2	9.7	10.2	11.9	13.0	13.5
172.5°	14.6	14.1	12.5	11.3	10.8	11.3	13.0	14.1	14.6
175°	16.2	15.1	14.1	12.5	11.9	12.5	14.1	15.1	16.2
177.5°	16.8	15.7	14.6	13.0	12.5	13.0	14.6	15.7	16.8
180°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6



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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	19.06	20.32	19.42	20.63	20.95	20.04	21.30	20.40	21.62	21.93
	3H	20.62	21.75	21.00	22.08	22.45	21.38	22.50	21.76	22.84	23.20
	4H	21.29	22.34	21.70	22.69	23.08	21.94	22.99	22.34	23.34	23.72
	6H	21.85	22.81	22.26	23.18	23.58	22.37	23.33	22.79	23.71	24.10
	8H	22.05	22.96	22.48	23.35	23.76	22.51	23.42	22.94	23.81	24.22
	12H	22.17	23.05	22.61	23.43	23.86	22.58	23.46	23.02	23.84	24.27
4H	2H	19.63	20.68	20.03	21.03	21.41	20.40	21.45	20.80	21.80	22.18
	3H	21.42	22.28	21.83	22.69	23.09	21.99	22.85	22.40	23.26	23.66
	4H	22.21	22.99	22.65	23.41	23.85	22.68	23.46	23.12	23.88	24.32
	6H	22.90	23.57	23.36	24.01	24.48	23.26	23.92	23.72	24.37	24.84
	8H	23.15	23.77	23.62	24.22	24.69	23.44	24.06	23.91	24.51	24.98
	12H	23.32	23.87	23.80	24.35	24.83	23.56	24.11	24.05	24.59	25.07
8H	4H	22.49	23.12	22.96	23.57	24.04	22.92	23.54	23.39	23.99	24.46
	6H	23.31	23.82	23.82	24.32	24.80	23.62	24.13	24.12	24.62	25.11
	8H	23.64	24.10	24.17	24.61	25.11	23.88	24.33	24.40	24.85	25.34
	12H	23.89	24.29	24.41	24.79	25.36	24.07	24.47	24.59	24.97	25.54
12H	4H	22.51	23.06	23.00	23.54	24.02	22.93	23.48	23.42	23.96	24.44
	6H	23.36	23.81	23.88	24.33	24.82	23.66	24.12	24.18	24.63	25.13
	8H	23.75	24.15	24.26	24.64	25.22	23.98	24.38	24.50	24.88	25.45

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-5

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L930-N

Data in this report applies to families of products including EHBR-60-L930-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-5
 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-L930-N**
 Description: Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K): 2996
 CIE u': 0.2519
 CIE v': 0.5169
 Duv: -0.0033
 CIE x: 0.4325
 CIE y: 0.3945
 CIE z: 0.1730
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 584
 Purity: 48.21818
 Rf: 91.3
 Rg: 102

CRI (Ra):	94.4		
R1:	96.8	R9:	61.4
R2:	98.1	R10:	94.4
R3:	97.8	R11:	95.7
R4:	95.6	R12:	88.5
R5:	96.9	R13:	97.3
R6:	95.7	R14:	97.8
R7:	90.9	R15:	92.3
R8:	83.0		



Test Conditions

Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-5

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: SP1-2506-472-5

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 7-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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.44

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.85

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

Summary

$R_f = 91.3$
 $R_g = 102$
 CIE $R_a = 94.4$
 $R_9 = 61.4$



Color Vector Graphics



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

CES01 = 86	CES26 = 91	CES51 = 96	CES76 = 89
CES02 = 63	CES27 = 96	CES52 = 95	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 93	CES78 = 86
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 89
CES05 = 51	CES30 = 96	CES55 = 98	CES80 = 91
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 72
CES07 = 44	CES32 = 84	CES57 = 95	CES82 = 95
CES08 = 42	CES33 = 91	CES58 = 95	CES83 = 93
CES09 = 29	CES34 = 92	CES59 = 99	CES84 = 96
CES10 = 76	CES35 = 96	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 90	CES61 = 96	CES86 = 77
CES12 = 65	CES37 = 94	CES62 = 95	CES87 = 91
CES13 = 44	CES38 = 99	CES63 = 94	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 96	CES89 = 82
CES15 = 72	CES40 = 94	CES65 = 92	CES90 = 97
CES16 = 48	CES41 = 94	CES66 = 95	CES91 = 82
CES17 = 50	CES42 = 91	CES67 = 94	CES92 = 78
CES18 = 57	CES43 = 88	CES68 = 93	CES93 = 87
CES19 = 72	CES44 = 99	CES69 = 94	CES94 = 73
CES20 = 67	CES45 = 93	CES70 = 90	CES95 = 85
CES21 = 86	CES46 = 93	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 93
CES23 = 92	CES48 = 95	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 93
CES25 = 72	CES50 = 96	CES75 = 90	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)