

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: P1433778

Luminaire Tested: EHBR1-24-UNV-TASM-L940

Issue Date: 3/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1433778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: EHBR1-24-UNV-TASM-L940  
Description: Elevate Round Highbay at, 24000 lumens, 4000K 90CRI LEDs with TASM lens  
Light Source: -  
Ballast/Driver: -

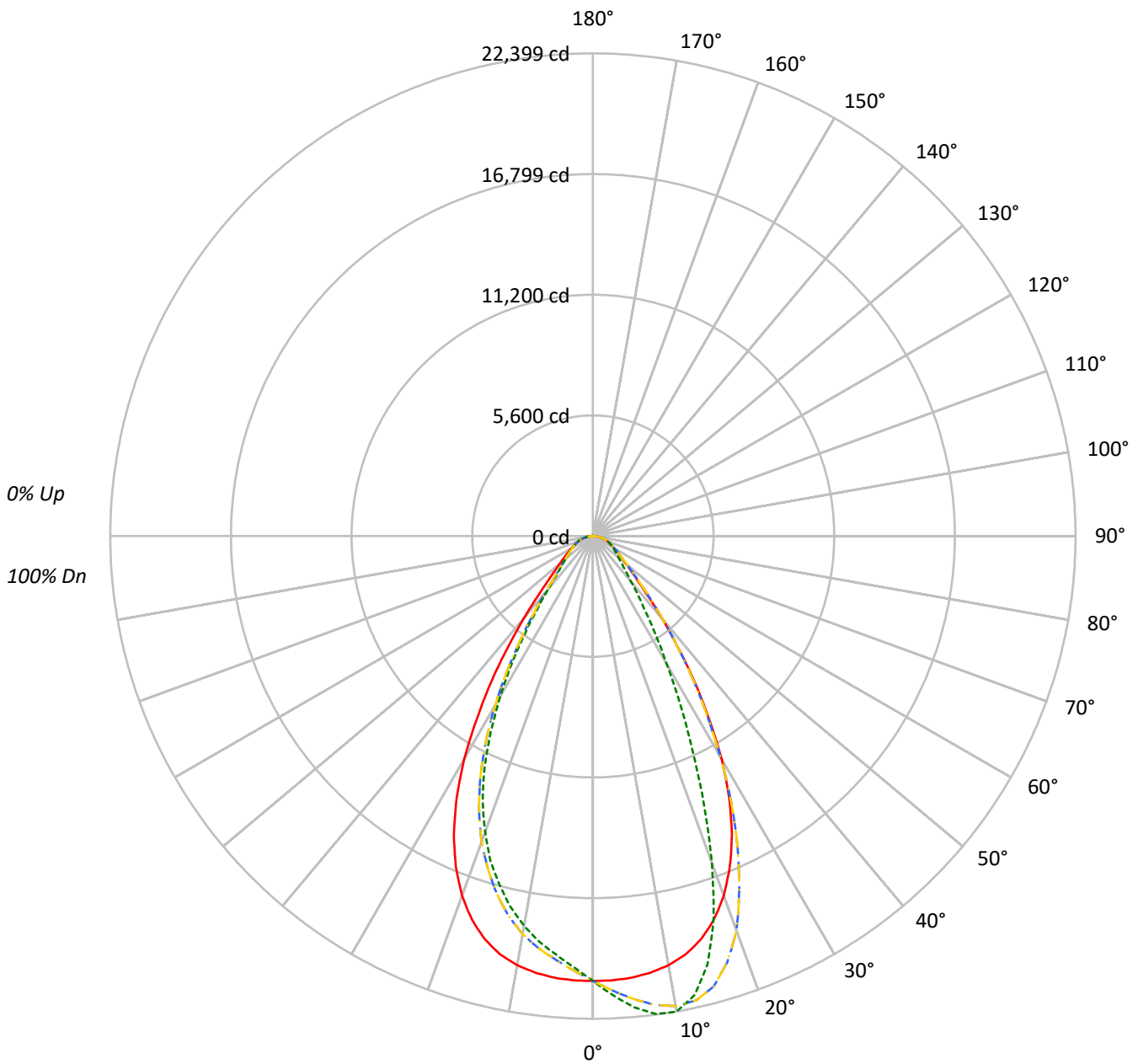
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23081.4 lumens  
Efficiency: N/A  
Efficacy: 179.9 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.84 / 0.9  
Luminous Opening: Circular (Dia: 1.71' x H: 0')  
CIE Type: Direct

Input Watts (W): 128.3  
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: P1433778  
CATALOG NUMBER: EHBR1-24-UNV-TASM-L940

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - · 90°-270°    - · - · 135°-315°



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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	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90	90	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74	74	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67	67	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62	62	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53	53	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43	43	43

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	96940	96940	96940	96940
5°	96978	103457	96978	91945
10°	96416	106811	96416	87590
15°	94199	99930	94199	81455
20°	88718	80692	88718	73063
25°	79106	56324	79106	61685
30°	64745	36936	64745	46521
35°	46845	24130	46845	31242
40°	30585	16796	30585	19897
45°	19625	13157	19625	14337
50°	14767	11328	14767	12101
55°	12252	10486	12252	10854
60°	10826	10194	10826	10256
65°	10139	10099	10139	10056
70°	9982	10279	9982	10145
75°	9903	10547	9903	10233
80°	9682	11085	9682	10363
85°	8158	10302	8158	9823

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 27591 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1962.8	8.5
10°-20°	5339.9	23.1
20°-30°	6262.6	27.1
30°-40°	4355.3	18.9
40°-50°	2164.4	9.4
50°-60°	1294.5	5.6
60°-70°	911.1	3.9
70°-80°	586.9	2.5
80°-90°	186.4	0.8
90°-100°	1.1	0.0
100°-110°	1.3	0.0
110°-120°	1.3	0.0
120°-130°	1.7	0.0
130°-140°	2.3	0.0
140°-150°	2.7	0.0
150°-160°	3.0	0.0
160°-170°	3.0	0.0
170°-180°	1.3	0.0
0°-30°	13565.3	58.8
0°-40°	17920.5	77.6
0°-60°	21379.4	92.6
0°-90°	23063.9	99.9
90°-120°	3.6	0.0
90°-150°	10.3	0.0
90°-180°	18.0	0.1
0°-180°	23081.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	20643	20643	20643	20643	20643	
5°	20572	21947	20572	19505	20572	1952
15°	19376	20554	19376	16754	19376	5415
25°	15267	10870	15267	11905	15267	6912
35°	8171	4209	8171	5450	8171	5101
45°	2955	1981	2955	2159	2955	2418
55°	1496	1281	1496	1326	1496	1368
65°	912	909	912	905	912	916
75°	546	581	546	564	546	573
85°	151	191	151	182	151	168
90°	0	3	0	0	0	7
95°	1	3	1	0	1	1
105°	1	3	1	1	1	1
115°	1	3	1	1	1	1
125°	2	4	2	1	2	2
135°	3	4	3	2	3	2
145°	5	5	5	4	5	3
155°	6	7	6	7	6	3
165°	10	13	10	11	10	3
175°	14	17	14	13	14	1
180°	14	14	14	14	14	



TEST NUMBER: P1433778  
 CATALOG NUMBER: EHBR1-24-UNV-TASM-L940

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	20642.6	20642.6	20642.6	20642.6	20642.6	20642.6	20642.6	20642.6	20642.6	20642.6	20642.6
2.5°	20630.6	20897.3	21113.2	21255.7	21326.1	21255.7	21113.2	20897.3	20630.6	20365.4	20183.1
5°	20572.1	21106.3	21558.8	21854.9	21946.6	21854.9	21558.8	21106.3	20572.1	20067.4	19732.5
7.5°	20432.4	21264.6	21936.9	22282.6	22367.0	22282.6	21936.9	21264.6	20432.4	19717.8	19294.8
10°	20219.1	21364.5	22141.3	22389.0	22399.1	22389.0	22141.3	21364.5	20219.1	19256.5	18757.5
12.5°	19878.8	21328.8	22072.8	21991.5	21806.9	21991.5	22072.8	21328.8	19878.8	18692.8	18063.5
15°	19375.6	21117.9	21638.9	20977.4	20554.3	20977.4	21638.9	21117.9	19375.6	17931.9	17201.8
17.5°	18666.6	20723.1	20733.1	19424.4	18626.3	19424.4	20733.1	20723.1	18666.6	17001.3	16197.3
20°	17752.6	20089.8	19485.9	17092.3	16146.6	17092.3	19485.9	20089.8	17752.6	15901.2	15112.3
22.5°	16606.9	19235.9	17749.2	14746.2	13456.0	14746.2	17749.2	19235.9	16606.9	14621.9	13800.9
25°	15266.8	18189.6	15880.7	12189.9	10870.0	12189.9	15880.7	18189.6	15266.8	13097.6	12355.2
27.5°	13690.6	16863.5	13891.1	9961.1	8743.3	9961.1	13891.1	16863.5	13690.6	11523.7	10765.4
30°	11939.9	15163.5	11820.6	7932.8	6811.5	7932.8	11820.6	15163.5	11939.9	9755.5	9076.7
32.5°	9979.7	13497.0	9832.2	6356.2	5406.3	6356.2	9832.2	13497.0	9979.7	8068.2	7358.8
35°	8171.3	11412.3	8039.3	4994.5	4209.1	4994.5	8039.3	11412.3	8171.3	6475.5	5778.7
37.5°	6412.7	9442.4	6408.5	4021.7	3414.0	4021.7	6408.5	9442.4	6412.7	5034.3	4468.8
40°	4989.1	7383.1	5021.2	3210.5	2739.8	3210.5	5021.2	7383.1	4989.1	3830.6	3468.6
42.5°	3780.2	5645.6	3946.6	2634.9	2327.2	2634.9	3946.6	5645.6	3780.2	3018.1	2747.1
45°	2955.0	4154.5	3081.9	2223.0	1981.1	2223.0	3081.9	4154.5	2955.0	2430.5	2248.5
47.5°	2406.4	3210.8	2497.8	1906.8	1737.2	1906.8	2497.8	3210.8	2406.4	2055.8	1919.6
50°	2021.3	2463.7	2073.9	1664.5	1550.6	1664.5	2073.9	2463.7	2021.3	1760.4	1669.5
52.5°	1736.4	2009.4	1766.2	1483.3	1406.7	1483.3	1766.2	2009.4	1736.4	1540.2	1483.6
55°	1496.4	1689.3	1535.9	1333.8	1280.8	1333.8	1535.9	1689.3	1496.4	1370.6	1328.8
57.5°	1314.2	1433.0	1333.8	1206.5	1171.3	1206.5	1333.8	1433.0	1314.2	1219.7	1197.3
60°	1152.7	1241.0	1177.1	1095.4	1085.4	1095.4	1177.1	1241.0	1152.7	1097.4	1082.7
62.5°	1028.4	1084.2	1040.8	995.6	986.7	995.6	1040.8	1084.2	1028.4	985.9	988.6
65°	912.4	964.3	930.2	905.7	908.8	905.7	930.2	964.3	912.4	892.6	896.9
67.5°	822.6	849.7	834.9	821.0	824.5	821.0	834.9	849.7	822.6	803.2	809.8
70°	727.0	755.9	740.8	742.8	748.6	742.8	740.8	755.9	727.0	721.1	726.1
72.5°	635.6	658.0	653.0	657.6	663.8	657.6	653.0	658.0	635.6	634.8	635.2
75°	545.8	562.8	565.1	571.8	581.3	571.8	565.1	562.8	545.8	540.0	547.0
77.5°	447.8	467.2	474.6	483.4	497.8	483.4	474.6	467.2	447.8	451.8	455.2
80°	358.0	367.0	383.2	389.8	409.9	389.8	383.2	367.0	358.0	351.5	356.5
82.5°	262.1	270.2	284.2	296.5	308.1	296.5	284.2	270.2	262.1	259.0	259.4
85°	151.4	163.7	173.0	187.7	191.2	187.7	173.0	163.7	151.4	154.8	151.4
87.5°	53.0	56.9	65.0	70.8	71.2	70.8	65.0	56.9	53.0	54.2	49.2
90°	0.4	0.7	1.1	2.3	3.1	2.3	1.1	0.7	0.4	0.4	0.4
92.5°	0.4	0.7	1.1	2.3	3.1	2.3	1.1	0.7	0.4	0.4	0.4
95°	0.7	0.7	1.1	2.3	3.1	2.3	1.1	0.7	0.7	0.4	0.4
97.5°	0.7	0.7	1.1	2.3	3.1	2.3	1.1	0.7	0.7	0.4	0.4
100°	0.7	0.7	1.1	2.3	3.1	2.3	1.1	0.7	0.7	0.7	0.4
102.5°	0.7	1.1	1.6	2.7	3.1	2.7	1.6	1.1	0.7	0.7	0.4
105°	0.7	1.1	1.6	2.7	3.4	2.7	1.6	1.1	0.7	0.7	0.4
107.5°	0.7	1.1	1.6	2.7	3.4	2.7	1.6	1.1	0.7	0.7	0.7
110°	0.7	1.1	1.6	2.7	3.4	2.7	1.6	1.1	0.7	0.7	0.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.7	1.1	1.6	2.7	3.4	2.7	1.6	1.1	0.7	0.7	0.7
115°	1.1	1.1	1.6	2.7	3.4	2.7	1.6	1.1	1.1	0.7	0.7
117.5°	1.1	1.1	1.6	2.7	3.4	2.7	1.6	1.1	1.1	1.1	0.7
120°	1.1	1.1	2.0	2.7	3.4	2.7	2.0	1.1	1.1	1.1	0.7
122.5°	1.6	1.6	2.0	3.1	3.4	3.1	2.0	1.6	1.6	1.6	1.1
125°	1.6	1.6	2.3	3.1	3.9	3.1	2.3	1.6	1.6	2.0	1.6
127.5°	2.0	2.0	2.3	3.1	3.9	3.1	2.3	2.0	2.0	2.0	1.6
130°	2.3	2.0	2.3	3.4	3.9	3.4	2.3	2.0	2.3	2.3	2.0
132.5°	2.7	2.3	2.7	3.9	4.3	3.9	2.7	2.3	2.7	3.1	2.7
135°	3.1	2.3	3.1	3.4	4.3	3.4	3.1	2.3	3.1	3.4	2.7
137.5°	3.4	2.7	3.1	3.9	4.3	3.9	3.1	2.7	3.4	3.9	3.4
140°	3.9	3.1	3.1	3.9	4.7	3.9	3.1	3.1	3.9	3.9	3.9
142.5°	4.3	3.4	3.4	4.3	4.7	4.3	3.4	3.4	4.3	4.3	4.3
145°	4.7	4.3	3.9	4.3	5.0	4.3	3.9	4.3	4.7	4.3	4.7
147.5°	4.7	4.3	4.3	4.7	5.4	4.7	4.3	4.3	4.7	4.7	5.0
150°	5.0	5.0	4.7	5.0	5.8	5.0	4.7	5.0	5.0	5.0	5.4
152.5°	5.4	5.4	5.4	5.8	6.1	5.8	5.4	5.4	5.4	5.4	5.8
155°	6.1	6.1	6.1	6.6	7.0	6.6	6.1	6.1	6.1	5.8	6.6
157.5°	7.0	7.4	7.4	7.7	8.1	7.7	7.4	7.4	7.0	7.0	7.4
160°	8.5	8.5	8.9	9.3	9.7	9.3	8.9	8.5	8.5	8.1	8.5
162.5°	9.3	9.3	10.1	10.4	11.2	10.4	10.1	9.3	9.3	9.3	9.3
165°	10.4	10.4	11.2	12.0	12.8	12.0	11.2	10.4	10.4	10.1	10.1
167.5°	11.2	11.2	12.0	13.1	14.0	13.1	12.0	11.2	11.2	10.8	10.8
170°	11.6	12.0	12.8	14.0	14.7	14.0	12.8	12.0	11.6	11.6	11.2
172.5°	12.8	12.8	14.0	15.1	15.8	15.1	14.0	12.8	12.8	12.4	12.4
175°	13.5	14.0	14.7	15.8	16.7	15.8	14.7	14.0	13.5	13.1	13.1
177.5°	13.5	14.3	15.1	16.3	17.0	16.3	15.1	14.3	13.5	13.1	13.1
180°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	20642.6	20642.6	20642.6	20642.6	20642.6	20642.6
2.5°	20043.0	20029.8	20043.0	20183.1	20365.4	20630.6
5°	19577.3	19504.6	19577.3	19732.5	20067.4	20572.1
7.5°	19035.0	18992.8	19035.0	19294.8	19717.8	20432.4
10°	18464.1	18368.4	18464.1	18757.5	19256.5	20219.1
12.5°	17760.3	17633.8	17760.3	18063.5	18692.8	19878.8
15°	16865.4	16754.3	16865.4	17201.8	17931.9	19375.6
17.5°	15905.1	15804.4	15905.1	16197.3	17001.3	18666.6
20°	14699.0	14619.9	14699.0	15112.3	15901.2	17752.6
22.5°	13433.6	13359.6	13433.6	13800.9	14621.9	16606.9
25°	11944.9	11904.7	11944.9	12355.2	13097.6	15266.8
27.5°	10336.1	10267.7	10336.1	10765.4	11523.7	13690.6
30°	8692.6	8579.2	8692.6	9076.7	9755.5	11939.9
32.5°	7085.1	7003.5	7085.1	7358.8	8068.2	9979.7
35°	5531.4	5449.7	5531.4	5778.7	6475.5	8171.3
37.5°	4310.2	4165.8	4310.2	4468.8	5034.3	6412.7
40°	3268.9	3245.7	3268.9	3468.6	3830.6	4989.1
42.5°	2661.2	2598.1	2661.2	2747.1	3018.1	3780.2
45°	2183.5	2158.7	2183.5	2248.5	2430.5	2955.0
47.5°	1877.7	1888.5	1877.7	1919.6	2055.8	2406.4
50°	1649.8	1656.3	1649.8	1669.5	1760.4	2021.3
52.5°	1481.8	1475.9	1481.8	1483.6	1540.2	1736.4
55°	1333.1	1325.7	1333.1	1328.8	1370.6	1496.4
57.5°	1203.0	1208.4	1203.0	1197.3	1219.7	1314.2
60°	1087.0	1092.0	1087.0	1082.7	1097.4	1152.7
62.5°	988.9	992.1	988.9	988.6	985.9	1028.4
65°	901.6	905.0	901.6	896.9	892.6	912.4
67.5°	817.9	817.9	817.9	809.8	803.2	822.6
70°	739.4	738.9	739.4	726.1	721.1	727.0
72.5°	644.9	654.2	644.9	635.2	634.8	635.6
75°	553.1	564.0	553.1	547.0	540.0	545.8
77.5°	460.2	476.9	460.2	455.2	451.8	447.8
80°	365.0	383.2	365.0	356.5	351.5	358.0
82.5°	269.8	283.3	269.8	259.4	259.0	262.1
85°	160.6	182.3	160.6	151.4	154.8	151.4
87.5°	51.5	65.8	51.5	49.2	54.2	53.0
90°	0.4	0.4	0.4	0.4	0.4	0.4
92.5°	0.4	0.4	0.4	0.4	0.4	0.4
95°	0.4	0.4	0.4	0.4	0.4	0.7
97.5°	0.4	0.7	0.4	0.4	0.4	0.7
100°	0.4	0.7	0.4	0.4	0.7	0.7
102.5°	0.4	0.7	0.4	0.4	0.7	0.7
105°	0.4	0.7	0.4	0.4	0.7	0.7
107.5°	0.4	0.7	0.4	0.7	0.7	0.7
110°	0.4	0.7	0.4	0.7	0.7	0.7



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 CATALOG NUMBER: EHBR1-24-UNV-TASM-L940

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.4	0.7	0.4	0.7	0.7	0.7
115°	0.4	0.7	0.4	0.7	0.7	1.1
117.5°	0.4	0.7	0.4	0.7	1.1	1.1
120°	0.4	0.7	0.4	0.7	1.1	1.1
122.5°	0.7	0.7	0.7	1.1	1.6	1.6
125°	0.7	1.1	0.7	1.6	2.0	1.6
127.5°	0.7	1.1	0.7	1.6	2.0	2.0
130°	1.1	1.1	1.1	2.0	2.3	2.3
132.5°	1.6	1.6	1.6	2.7	3.1	2.7
135°	2.0	1.6	2.0	2.7	3.4	3.1
137.5°	2.3	2.0	2.3	3.4	3.9	3.4
140°	3.1	2.7	3.1	3.9	3.9	3.9
142.5°	3.4	3.4	3.4	4.3	4.3	4.3
145°	4.3	4.3	4.3	4.7	4.3	4.7
147.5°	5.0	5.0	5.0	5.0	4.7	4.7
150°	5.8	5.8	5.8	5.4	5.0	5.0
152.5°	6.1	6.6	6.1	5.8	5.4	5.4
155°	7.0	7.4	7.0	6.6	5.8	6.1
157.5°	7.7	8.5	7.7	7.4	7.0	7.0
160°	8.9	9.3	8.9	8.5	8.1	8.5
162.5°	9.7	10.1	9.7	9.3	9.3	9.3
165°	10.4	10.8	10.4	10.1	10.1	10.4
167.5°	10.8	10.8	10.8	10.8	10.8	11.2
170°	11.2	11.6	11.2	11.2	11.6	11.6
172.5°	12.0	12.4	12.0	12.4	12.4	12.8
175°	12.8	13.1	12.8	13.1	13.1	13.5
177.5°	13.1	13.5	13.1	13.1	13.1	13.5
180°	14.3	14.3	14.3	14.3	14.3	14.3



TEST NUMBER: P1433778  
 CATALOG NUMBER: EHBR1-24-UNV-TASM-L940

**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	17.54	18.75	17.91	19.06	19.38	16.86	18.07	17.23	18.38	18.70
	3H	19.18	20.25	19.56	20.59	20.96	18.81	19.88	19.19	20.22	20.59
	4H	19.89	20.89	20.29	21.24	21.63	19.67	20.67	20.08	21.02	21.41
	6H	20.46	21.38	20.88	21.75	22.15	20.42	21.34	20.84	21.72	22.11
	8H	20.66	21.53	21.10	21.93	22.33	20.71	21.58	21.14	21.97	22.38
	12H	20.78	21.62	21.22	22.00	22.43	20.91	21.74	21.34	22.12	22.55
4H	2H	18.00	19.01	18.41	19.36	19.75	17.49	18.49	17.90	18.85	19.23
	3H	19.92	20.74	20.33	21.15	21.55	19.67	20.49	20.08	20.90	21.31
	4H	20.77	21.51	21.21	21.93	22.38	20.67	21.40	21.10	21.83	22.27
	6H	21.50	22.13	21.96	22.58	23.05	21.56	22.20	22.03	22.65	23.12
	8H	21.75	22.35	22.23	22.80	23.27	21.91	22.50	22.38	22.95	23.42
	12H	21.92	22.45	22.41	22.93	23.41	22.16	22.68	22.64	23.17	23.64
8H	4H	21.08	21.68	21.55	22.13	22.60	21.01	21.60	21.48	22.05	22.52
	6H	21.96	22.44	22.46	22.94	23.43	22.06	22.54	22.56	23.04	23.53
	8H	22.31	22.74	22.84	23.26	23.75	22.51	22.94	23.03	23.46	23.95
	12H	22.57	22.95	23.09	23.44	24.02	22.86	23.24	23.38	23.74	24.31
12H	4H	21.11	21.63	21.60	22.12	22.60	21.04	21.56	21.52	22.05	22.52
	6H	22.03	22.46	22.55	22.98	23.47	22.13	22.56	22.66	23.08	23.58
	8H	22.44	22.82	22.96	23.32	23.90	22.65	23.03	23.17	23.52	24.10

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: SP1-2506-472-6

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L935-N

Data in this report applies to families of products including EHBR-60-L935-N

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2506-472-6  
 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-L935-N**  
 Description: Elevate Round Highbay at, 60000 lumens, 3500K 90CRI LEDs with N lens

**Spectral Parameters**

CCT (K): 3406  
 CIE u': 0.2394  
 CIE v': 0.5094  
 Duv: -0.0028  
 CIE x: 0.4076  
 CIE y: 0.3856  
 CIE z: 0.2068  
 Peak Wavelength (nm): 630  
 Dominant Wavelength (nm): 582  
 Purity: 38.0517  
 Rf: 91.3  
 Rg: 100

CRI (Ra):	94.6		
R1:	96.6	R9:	63.8
R2:	98.4	R10:	94.7
R3:	98.1	R11:	96.6
R4:	95.8	R12:	80.9
R5:	96.2	R13:	97.4
R6:	95.4	R14:	98.3
R7:	91.8	R15:	93.1
R8:	84.4		



**Test Conditions**

Stabilization Time: 35M  
 Operation Time: 1H 35M  
 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 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

**Photopic Flux vs. Wavelength**

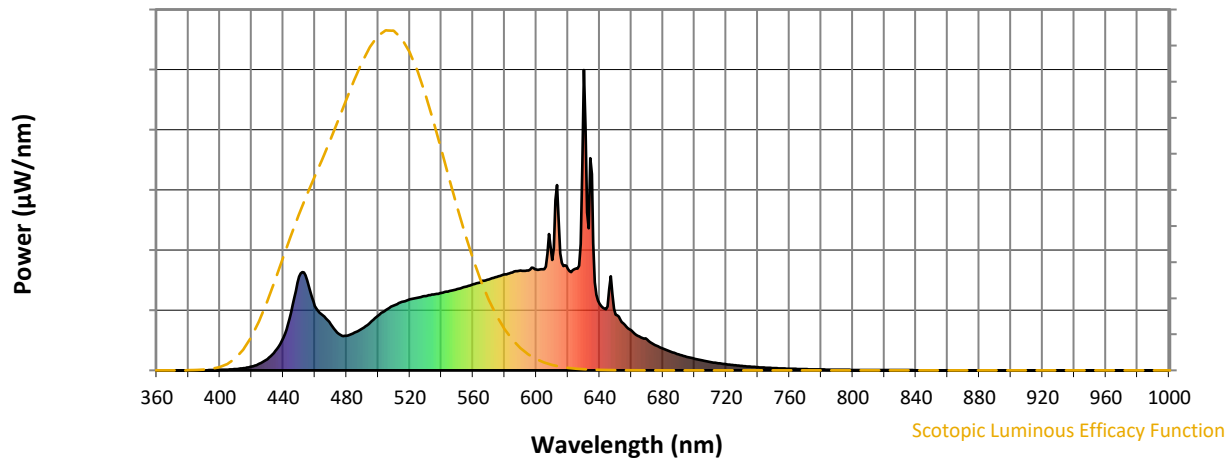


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.62

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.3

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

**Summary**

$R_f = 91.3$   
 $R_g = 100$   
 $CIE R_a = 94.6$   
 $R_9 = 63.8$



**Color Vector Graphics**

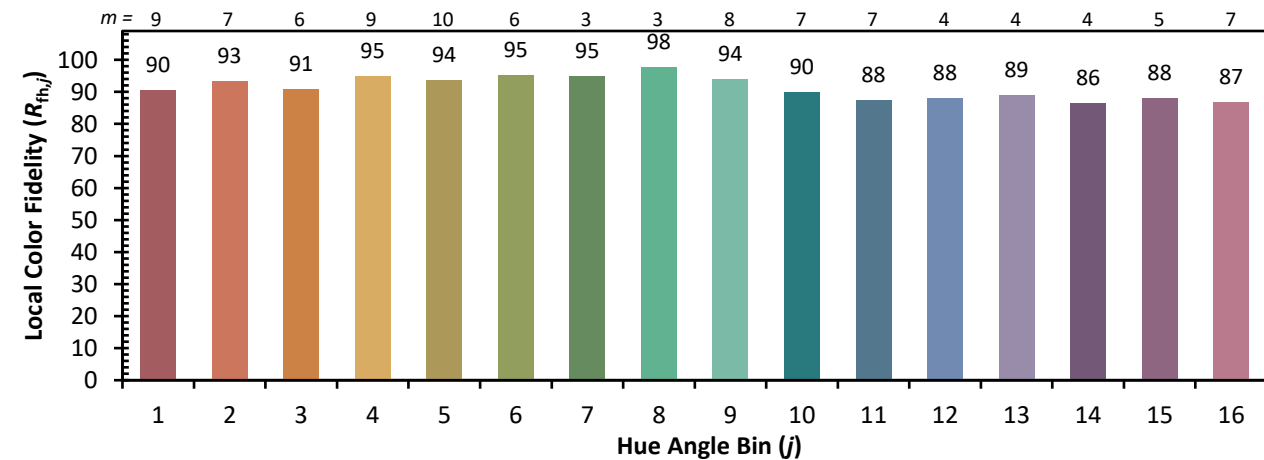
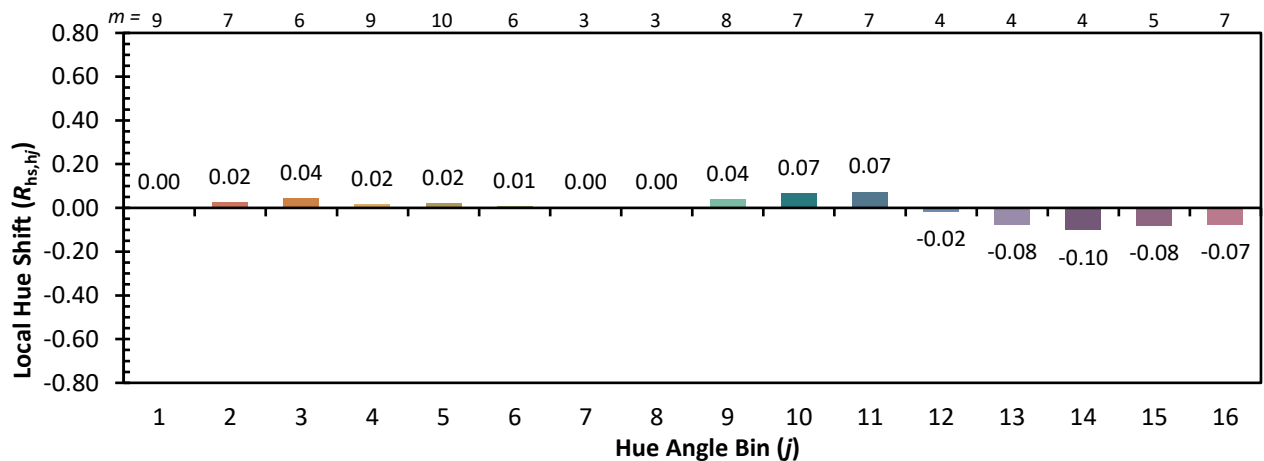


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 90
CES02 = 63	CES27 = 92	CES52 = 98	CES77 = 86
CES03 = 31	CES28 = 97	CES53 = 98	CES78 = 86
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 90
CES05 = 50	CES30 = 92	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 74
CES07 = 43	CES32 = 89	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 99	CES58 = 95	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 97	CES60 = 92	CES85 = 79
CES11 = 58	CES36 = 81	CES61 = 93	CES86 = 79
CES12 = 64	CES37 = 96	CES62 = 86	CES87 = 92
CES13 = 44	CES38 = 87	CES63 = 94	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 84
CES15 = 72	CES40 = 97	CES65 = 90	CES90 = 96
CES16 = 48	CES41 = 96	CES66 = 89	CES91 = 75
CES17 = 49	CES42 = 94	CES67 = 88	CES92 = 76
CES18 = 56	CES43 = 93	CES68 = 89	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 90	CES94 = 74
CES20 = 67	CES45 = 97	CES70 = 88	CES95 = 83
CES21 = 86	CES46 = 97	CES71 = 83	CES96 = 92
CES22 = 78	CES47 = 91	CES72 = 94	CES97 = 96
CES23 = 91	CES48 = 91	CES73 = 83	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 90	CES99 = 92
CES25 = 71	CES50 = 98	CES75 = 85	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)