

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: P1433586

Luminaire Tested: EHBR1-42-UNV-TASM-L935

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1433586
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: EHBR1-42-UNV-TASM-L935
Description: Elevate Round Highbay at, 42000 lumens, 3500K 90CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

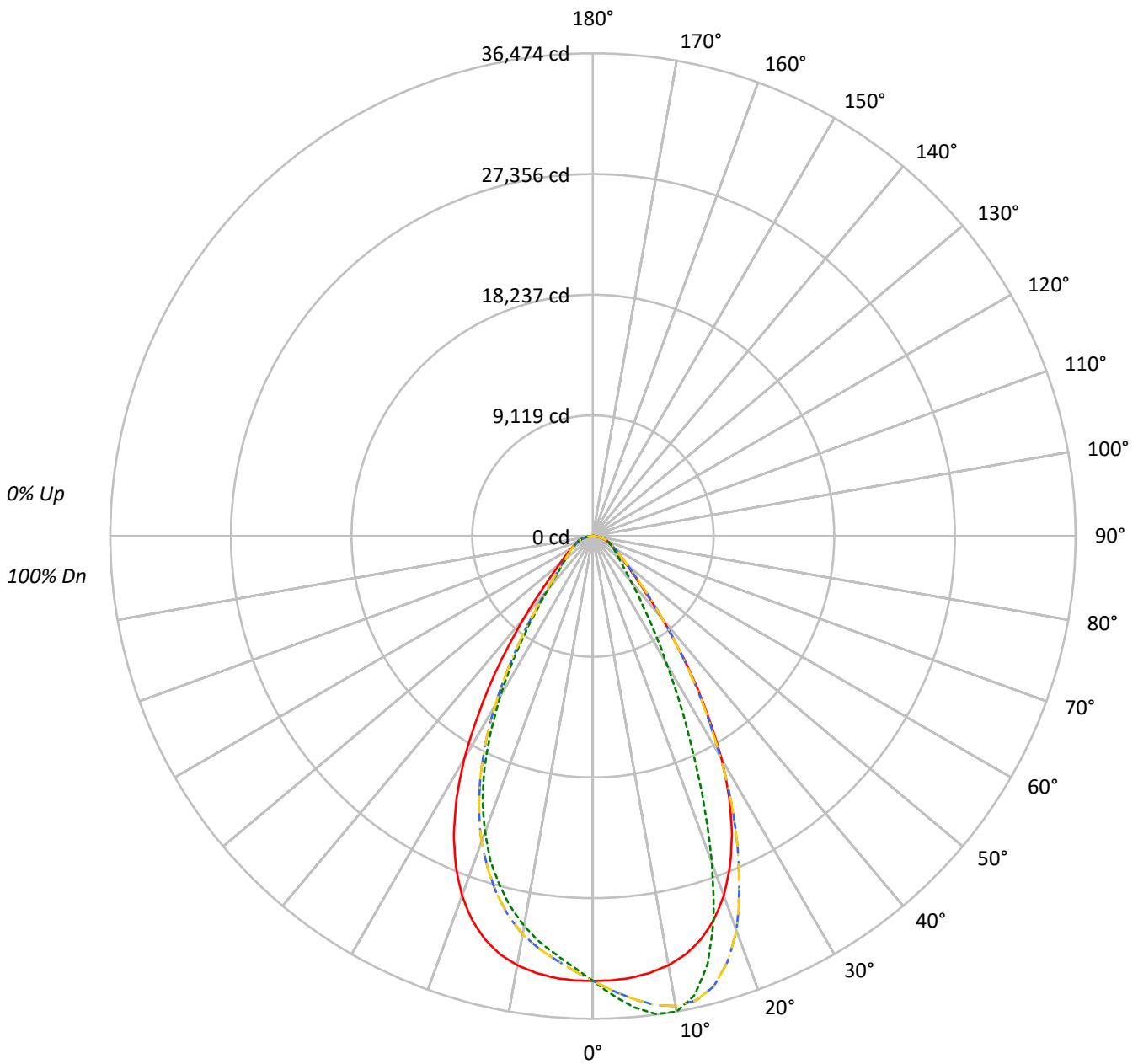
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37585.6 lumens
Efficiency: N/A
Efficacy: 167.5 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): 224.4
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: P1433586
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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90	90	90	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74	74	74	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67	67	67	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62	62	62	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	157855	157855	157855	157855
5°	157916	168468	157916	149721
10°	157001	173929	157001	142631
15°	153393	162724	153393	132640
20°	144467	131398	144467	118974
25°	128815	91716	128815	100446
30°	105429	60145	105429	75755
35°	76281	39293	76281	50874
40°	49803	27349	49803	32400
45°	31957	21424	31957	23346
50°	24047	18447	24047	19705
55°	19951	17076	19951	17675
60°	17630	16600	17630	16700
65°	16509	16445	16509	16376
70°	16254	16737	16254	16520
75°	16125	17179	16125	16664
80°	15766	18052	15766	16875
85°	13276	16779	13276	15997

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 44929 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3196.2	8.5
10°-20°	8695.4	23.1
20°-30°	10197.9	27.1
30°-40°	7092.0	18.9
40°-50°	3524.4	9.4
50°-60°	2108.0	5.6
60°-70°	1483.7	3.9
70°-80°	955.7	2.5
80°-90°	303.6	0.8
90°-100°	1.8	0.0
100°-110°	2.1	0.0
110°-120°	2.2	0.0
120°-130°	2.7	0.0
130°-140°	3.7	0.0
140°-150°	4.4	0.0
150°-160°	4.9	0.0
160°-170°	4.8	0.0
170°-180°	2.1	0.0
0°-30°	22089.5	58.8
0°-40°	29181.5	77.6
0°-60°	34813.8	92.6
0°-90°	37556.8	99.9
90°-120°	6.0	0.0
90°-150°	16.9	0.0
90°-180°	29.0	0.1
0°-180°	37585.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	33614	33614	33614	33614	33614	
5°	33499	35738	33499	31761	33499	3179
15°	31551	33470	31551	27282	31551	8817
25°	24860	17700	24860	19385	24860	11255
35°	13306	6854	13306	8874	13306	8306
45°	4812	3226	4812	3515	4812	3937
55°	2437	2086	2437	2159	2437	2228
65°	1486	1480	1486	1474	1486	1492
75°	889	947	889	918	889	933
85°	246	311	246	297	246	274
90°	1	5	1	1	1	12
95°	1	5	1	1	1	1
105°	1	6	1	1	1	1
115°	2	6	2	1	2	2
125°	2	6	2	2	2	2
135°	5	7	5	2	5	4
145°	8	8	8	7	8	5
155°	10	11	10	12	10	5
165°	17	21	17	18	17	5
175°	22	27	22	21	22	2
180°	23	23	23	23	23	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	33614.0	33614.0	33614.0	33614.0	33614.0	33614.0	33614.0	33614.0	33614.0	33614.0	33614.0
2.5°	33594.4	34028.7	34380.4	34612.4	34727.0	34612.4	34380.4	34028.7	33594.4	33162.6	32865.8
5°	33499.2	34369.0	35105.9	35588.0	35737.5	35588.0	35105.9	34369.0	33499.2	32677.3	32132.1
7.5°	33271.6	34626.9	35721.7	36284.6	36422.0	36284.6	35721.7	34626.9	33271.6	32108.1	31419.2
10°	32924.3	34789.5	36054.5	36457.9	36474.3	36457.9	36054.5	34789.5	32924.3	31356.8	30544.3
12.5°	32370.3	34731.5	35943.0	35810.5	35509.9	35810.5	35943.0	34731.5	32370.3	30439.1	29414.1
15°	31550.9	34388.0	35236.4	34159.1	33470.2	34159.1	35236.4	34388.0	31550.9	29199.9	28011.1
17.5°	30396.2	33745.0	33761.4	31630.4	30330.6	31630.4	33761.4	33745.0	30396.2	27684.6	26375.5
20°	28908.0	32713.9	31730.5	27832.7	26292.8	27832.7	31730.5	32713.9	28908.0	25893.2	24608.7
22.5°	27042.3	31323.4	28902.3	24012.4	21911.5	24012.4	28902.3	31323.4	27042.3	23810.0	22473.2
25°	24860.2	29619.7	25859.9	19849.8	17700.4	19849.8	25859.9	29619.7	24860.2	21327.8	20119.0
27.5°	22293.5	27460.2	22620.0	16220.5	14237.5	16220.5	22620.0	27460.2	22293.5	18765.0	17530.2
30°	19442.6	24691.9	19248.5	12917.6	11091.6	12917.6	19248.5	24691.9	19442.6	15885.8	14780.2
32.5°	16250.7	21978.4	16010.6	10350.4	8803.5	10350.4	16010.6	21978.4	16250.7	13138.3	11982.9
35°	13305.9	18583.5	13090.9	8133.0	6854.0	8133.0	13090.9	18583.5	13305.9	10544.5	9410.0
37.5°	10442.4	15375.9	10435.5	6549.0	5559.3	6549.0	10435.5	15375.9	10442.4	8197.8	7276.9
40°	8124.1	12022.6	8176.5	5227.8	4461.3	5227.8	8176.5	12022.6	8124.1	6237.5	5648.2
42.5°	6155.6	9193.1	6426.7	4290.6	3789.5	4290.6	6426.7	9193.1	6155.6	4914.6	4473.4
45°	4811.8	6765.1	5018.5	3619.9	3225.9	3619.9	5018.5	6765.1	4811.8	3957.8	3661.5
47.5°	3918.6	5228.4	4067.4	3104.9	2828.8	3104.9	4067.4	5228.4	3918.6	3347.6	3125.8
50°	3291.5	4012.0	3377.3	2710.4	2525.0	2710.4	3377.3	4012.0	3291.5	2866.6	2718.5
52.5°	2827.6	3271.9	2876.1	2415.4	2290.6	2415.4	2876.1	3271.9	2827.6	2508.0	2416.0
55°	2436.8	2750.7	2501.1	2172.0	2085.7	2172.0	2501.1	2750.7	2436.8	2231.9	2163.9
57.5°	2139.9	2333.4	2172.0	1964.7	1907.3	1964.7	2172.0	2333.4	2139.9	1986.1	1949.5
60°	1877.1	2020.8	1916.8	1783.7	1767.4	1783.7	1916.8	2020.8	1877.1	1786.9	1763.0
62.5°	1674.7	1765.5	1694.9	1621.2	1606.7	1621.2	1694.9	1765.5	1674.7	1605.4	1609.8
65°	1485.7	1570.1	1514.7	1475.0	1479.9	1475.0	1514.7	1570.1	1485.7	1453.5	1460.5
67.5°	1339.4	1383.5	1359.6	1336.9	1342.5	1336.9	1359.6	1383.5	1339.4	1307.9	1318.6
70°	1183.8	1231.0	1206.4	1209.6	1219.0	1209.6	1206.4	1231.0	1183.8	1174.2	1182.5
72.5°	1034.9	1071.6	1063.3	1070.9	1081.0	1070.9	1063.3	1071.6	1034.9	1033.7	1034.3
75°	888.7	916.5	920.3	931.0	946.8	931.0	920.3	916.5	888.7	879.3	890.7
77.5°	729.2	760.8	772.7	787.2	810.6	787.2	772.7	760.8	729.2	735.6	741.3
80°	583.0	597.5	624.0	634.7	667.5	634.7	624.0	597.5	583.0	572.3	580.5
82.5°	426.7	439.9	462.7	482.8	501.7	482.8	462.7	439.9	426.7	421.7	422.3
85°	246.4	266.6	281.8	305.7	311.4	305.7	281.8	266.6	246.4	252.1	246.4
87.5°	86.4	92.6	105.9	115.4	116.0	115.4	105.9	92.6	86.4	88.3	80.0
90°	0.6	1.3	1.9	3.8	5.1	3.8	1.9	1.3	0.6	0.6	0.6
92.5°	0.6	1.3	1.9	3.8	5.1	3.8	1.9	1.3	0.6	0.6	0.6
95°	1.3	1.3	1.9	3.8	5.1	3.8	1.9	1.3	1.3	0.6	0.6
97.5°	1.3	1.3	1.9	3.8	5.1	3.8	1.9	1.3	1.3	0.6	0.6
100°	1.3	1.3	1.9	3.8	5.1	3.8	1.9	1.3	1.3	1.3	0.6
102.5°	1.3	1.9	2.5	4.4	5.1	4.4	2.5	1.9	1.3	1.3	0.6
105°	1.3	1.9	2.5	4.4	5.7	4.4	2.5	1.9	1.3	1.3	0.6
107.5°	1.3	1.9	2.5	4.4	5.7	4.4	2.5	1.9	1.3	1.3	1.3
110°	1.3	1.9	2.5	4.4	5.7	4.4	2.5	1.9	1.3	1.3	1.3



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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°	1.3	1.9	2.5	4.4	5.7	4.4	2.5	1.9	1.3	1.3	1.3
115°	1.9	1.9	2.5	4.4	5.7	4.4	2.5	1.9	1.9	1.3	1.3
117.5°	1.9	1.9	2.5	4.4	5.7	4.4	2.5	1.9	1.9	1.9	1.3
120°	1.9	1.9	3.2	4.4	5.7	4.4	3.2	1.9	1.9	1.9	1.3
122.5°	2.5	2.5	3.2	5.1	5.7	5.1	3.2	2.5	2.5	2.5	1.9
125°	2.5	2.5	3.8	5.1	6.3	5.1	3.8	2.5	2.5	3.2	2.5
127.5°	3.2	3.2	3.8	5.1	6.3	5.1	3.8	3.2	3.2	3.2	2.5
130°	3.8	3.2	3.8	5.7	6.3	5.7	3.8	3.2	3.8	3.8	3.2
132.5°	4.4	3.8	4.4	6.3	7.0	6.3	4.4	3.8	4.4	5.1	4.4
135°	5.1	3.8	5.1	5.7	7.0	5.7	5.1	3.8	5.1	5.7	4.4
137.5°	5.7	4.4	5.1	6.3	7.0	6.3	5.1	4.4	5.7	6.3	5.7
140°	6.3	5.1	5.1	6.3	7.5	6.3	5.1	5.1	6.3	6.3	6.3
142.5°	7.0	5.7	5.7	7.0	7.5	7.0	5.7	5.7	7.0	7.0	7.0
145°	7.5	7.0	6.3	7.0	8.2	7.0	6.3	7.0	7.5	7.0	7.5
147.5°	7.5	7.0	7.0	7.5	8.8	7.5	7.0	7.0	7.5	7.5	8.2
150°	8.2	8.2	7.5	8.2	9.4	8.2	7.5	8.2	8.2	8.2	8.8
152.5°	8.8	8.8	8.8	9.4	10.1	9.4	8.8	8.8	8.8	8.8	9.4
155°	10.1	10.1	10.1	10.7	11.3	10.7	10.1	10.1	10.1	9.4	10.7
157.5°	11.3	12.0	12.0	12.6	13.2	12.6	12.0	12.0	11.3	11.3	12.0
160°	13.9	13.9	14.5	15.1	15.8	15.1	14.5	13.9	13.9	13.2	13.9
162.5°	15.1	15.1	16.4	17.0	18.3	17.0	16.4	15.1	15.1	15.1	15.1
165°	17.0	17.0	18.3	19.6	20.8	19.6	18.3	17.0	17.0	16.4	16.4
167.5°	18.3	18.3	19.6	21.4	22.7	21.4	19.6	18.3	18.3	17.7	17.7
170°	18.9	19.6	20.8	22.7	23.9	22.7	20.8	19.6	18.9	18.9	18.3
172.5°	20.8	20.8	22.7	24.6	25.8	24.6	22.7	20.8	20.8	20.2	20.2
175°	22.0	22.7	23.9	25.8	27.1	25.8	23.9	22.7	22.0	21.4	21.4
177.5°	22.0	23.3	24.6	26.5	27.7	26.5	24.6	23.3	22.0	21.4	21.4
180°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	33614.0	33614.0	33614.0	33614.0	33614.0	33614.0
2.5°	32637.6	32616.2	32637.6	32865.8	33162.6	33594.4
5°	31879.3	31760.8	31879.3	32132.1	32677.3	33499.2
7.5°	30996.2	30927.5	30996.2	31419.2	32108.1	33271.6
10°	30066.5	29910.9	30066.5	30544.3	31356.8	32924.3
12.5°	28920.6	28714.5	28920.6	29414.1	30439.1	32370.3
15°	27463.3	27282.4	27463.3	28011.1	29199.9	31550.9
17.5°	25899.6	25735.7	25899.6	26375.5	27684.6	30396.2
20°	23935.5	23806.9	23935.5	24608.7	25893.2	28908.0
22.5°	21875.0	21754.6	21875.0	22473.2	23810.0	27042.3
25°	19450.8	19385.2	19450.8	20119.0	21327.8	24860.2
27.5°	16831.3	16719.7	16831.3	17530.2	18765.0	22293.5
30°	14155.0	13970.3	14155.0	14780.2	15885.8	19442.6
32.5°	11537.2	11404.3	11537.2	11982.9	13138.3	16250.7
35°	9007.2	8874.1	9007.2	9410.0	10544.5	13305.9
37.5°	7018.5	6783.4	7018.5	7276.9	8197.8	10442.4
40°	5323.0	5285.2	5323.0	5648.2	6237.5	8124.1
42.5°	4333.4	4230.7	4333.4	4473.4	4914.6	6155.6
45°	3555.6	3515.3	3555.6	3661.5	3957.8	4811.8
47.5°	3057.7	3075.3	3057.7	3125.8	3347.6	3918.6
50°	2686.4	2697.1	2686.4	2718.5	2866.6	3291.5
52.5°	2412.8	2403.4	2412.8	2416.0	2508.0	2827.6
55°	2170.8	2158.8	2170.8	2163.9	2231.9	2436.8
57.5°	1959.0	1967.8	1959.0	1949.5	1986.1	2139.9
60°	1769.9	1778.1	1769.9	1763.0	1786.9	1877.1
62.5°	1610.5	1615.5	1610.5	1609.8	1605.4	1674.7
65°	1468.0	1473.7	1468.0	1460.5	1453.5	1485.7
67.5°	1331.9	1331.9	1331.9	1318.6	1307.9	1339.4
70°	1203.9	1203.2	1203.9	1182.5	1174.2	1183.8
72.5°	1050.1	1065.2	1050.1	1034.3	1033.7	1034.9
75°	900.7	918.4	900.7	890.7	879.3	888.7
77.5°	749.4	776.5	749.4	741.3	735.6	729.2
80°	594.4	624.0	594.4	580.5	572.3	583.0
82.5°	439.3	461.4	439.3	422.3	421.7	426.7
85°	261.6	296.9	261.6	246.4	252.1	246.4
87.5°	83.8	107.1	83.8	80.0	88.3	86.4
90°	0.6	0.6	0.6	0.6	0.6	0.6
92.5°	0.6	0.6	0.6	0.6	0.6	0.6
95°	0.6	0.6	0.6	0.6	0.6	1.3
97.5°	0.6	1.3	0.6	0.6	0.6	1.3
100°	0.6	1.3	0.6	0.6	1.3	1.3
102.5°	0.6	1.3	0.6	0.6	1.3	1.3
105°	0.6	1.3	0.6	0.6	1.3	1.3
107.5°	0.6	1.3	0.6	1.3	1.3	1.3
110°	0.6	1.3	0.6	1.3	1.3	1.3



TEST NUMBER: P1433586
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L935

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.6	1.3	0.6	1.3	1.3	1.3
115°	0.6	1.3	0.6	1.3	1.3	1.9
117.5°	0.6	1.3	0.6	1.3	1.9	1.9
120°	0.6	1.3	0.6	1.3	1.9	1.9
122.5°	1.3	1.3	1.3	1.9	2.5	2.5
125°	1.3	1.9	1.3	2.5	3.2	2.5
127.5°	1.3	1.9	1.3	2.5	3.2	3.2
130°	1.9	1.9	1.9	3.2	3.8	3.8
132.5°	2.5	2.5	2.5	4.4	5.1	4.4
135°	3.2	2.5	3.2	4.4	5.7	5.1
137.5°	3.8	3.2	3.8	5.7	6.3	5.7
140°	5.1	4.4	5.1	6.3	6.3	6.3
142.5°	5.7	5.7	5.7	7.0	7.0	7.0
145°	7.0	7.0	7.0	7.5	7.0	7.5
147.5°	8.2	8.2	8.2	8.2	7.5	7.5
150°	9.4	9.4	9.4	8.8	8.2	8.2
152.5°	10.1	10.7	10.1	9.4	8.8	8.8
155°	11.3	12.0	11.3	10.7	9.4	10.1
157.5°	12.6	13.9	12.6	12.0	11.3	11.3
160°	14.5	15.1	14.5	13.9	13.2	13.9
162.5°	15.8	16.4	15.8	15.1	15.1	15.1
165°	17.0	17.7	17.0	16.4	16.4	17.0
167.5°	17.7	17.7	17.7	17.7	17.7	18.3
170°	18.3	18.9	18.3	18.3	18.9	18.9
172.5°	19.6	20.2	19.6	20.2	20.2	20.8
175°	20.8	21.4	20.8	21.4	21.4	22.0
177.5°	21.4	22.0	21.4	21.4	21.4	22.0
180°	23.3	23.3	23.3	23.3	23.3	23.3



TEST NUMBER: P1433586
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L935

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	19.24	20.44	19.60	20.76	21.08	18.56	19.76	18.92	20.08	20.39
	3H	20.88	21.95	21.26	22.28	22.65	20.51	21.58	20.89	21.91	22.28
	4H	21.58	22.58	21.99	22.93	23.32	21.37	22.37	21.77	22.72	23.11
	6H	22.15	23.07	22.57	23.45	23.84	22.12	23.04	22.53	23.41	23.81
	8H	22.36	23.23	22.79	23.62	24.03	22.40	23.27	22.84	23.67	24.08
	12H	22.48	23.31	22.91	23.69	24.13	22.60	23.43	23.03	23.82	24.25
4H	2H	19.70	20.70	20.10	21.05	21.44	19.19	20.19	19.59	20.54	20.93
	3H	21.61	22.43	22.02	22.84	23.25	21.36	22.19	21.78	22.59	23.00
	4H	22.47	23.21	22.90	23.63	24.07	22.36	23.10	22.80	23.52	23.97
	6H	23.19	23.83	23.66	24.28	24.75	23.25	23.89	23.72	24.34	24.81
	8H	23.45	24.04	23.92	24.49	24.97	23.60	24.20	24.07	24.64	25.12
	12H	23.62	24.14	24.11	24.63	25.10	23.85	24.37	24.34	24.86	25.34
8H	4H	22.77	23.37	23.25	23.82	24.29	22.70	23.30	23.17	23.74	24.22
	6H	23.65	24.13	24.16	24.63	25.12	23.75	24.24	24.26	24.74	25.22
	8H	24.00	24.43	24.53	24.95	25.45	24.20	24.63	24.73	25.15	25.65
	12H	24.26	24.64	24.78	25.14	25.71	24.56	24.94	25.08	25.43	26.01
12H	4H	22.80	23.33	23.29	23.81	24.29	22.73	23.25	23.22	23.74	24.22
	6H	23.72	24.15	24.25	24.67	25.17	23.83	24.26	24.35	24.78	25.27
	8H	24.14	24.52	24.66	25.01	25.59	24.34	24.72	24.86	25.22	25.79

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

REPORT NUMBER: SP1-2506-472-6

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: SP1-2506-472-6

CIE 1931 Chromaticity Diagram



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



CCT = 3406K
 CIE x = 0.4076
 CIE y = 0.3856
 Duv = -0.0028

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 [^] /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	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 [^] /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	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 [^] /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	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)