

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: P1431903

Luminaire Tested: EHBR1-42-UNV-TA-L950

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1431903
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: EHBR1-42-UNV-TA-L950
Description: Elevate Round Highbay at, 42000 lumens, 5000K 90CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

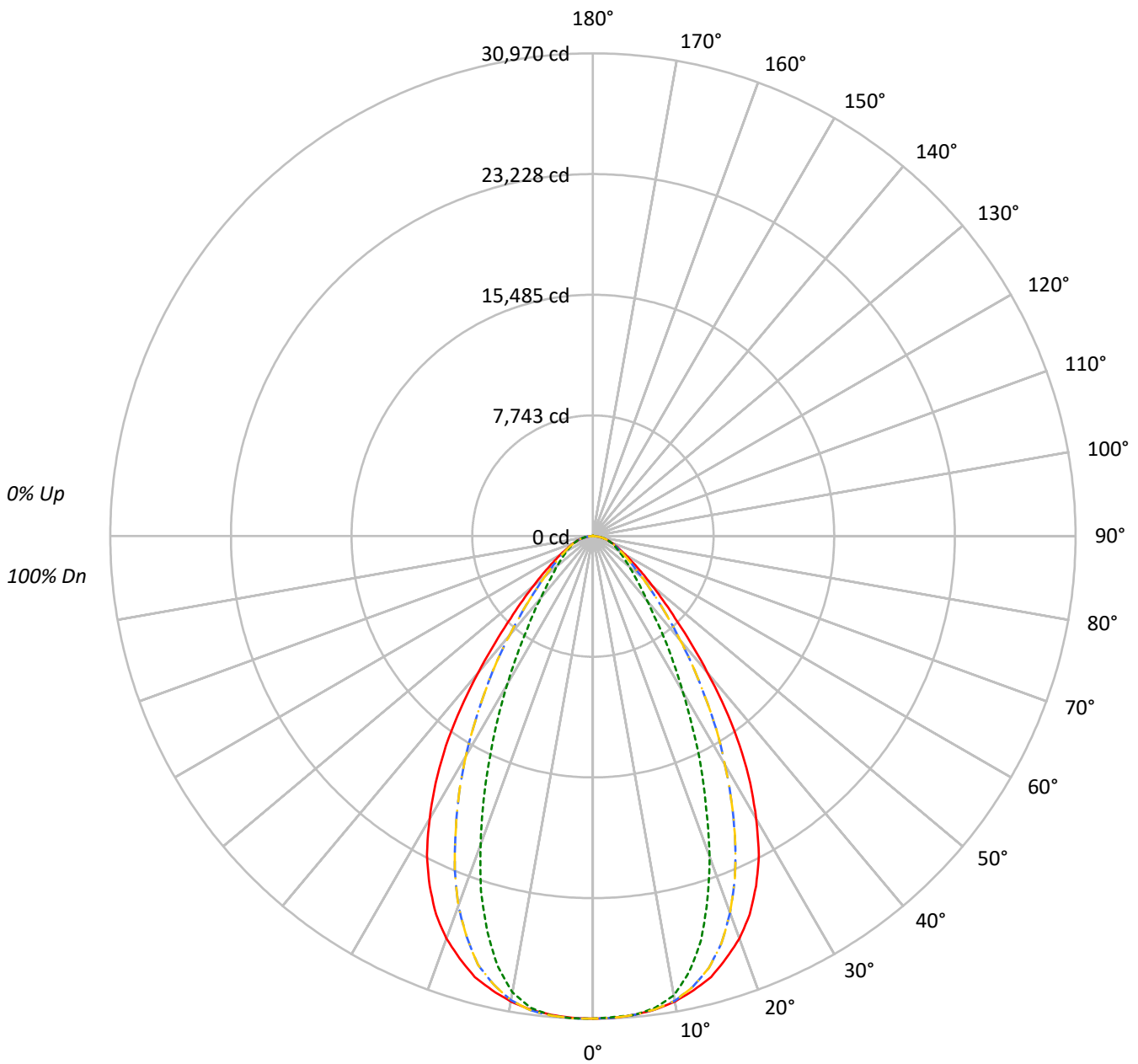
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38458.0 lumens
Efficiency: N/A
Efficacy: 171.4 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 0.8 / 0.93
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: P1431903
CATALOG NUMBER: EHBR1-42-UNV-TA-L950

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	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°	90°	180°	270°
0°	145375	145375	145375	145375
5°	145340	145356	145340	145509
10°	144588	142695	144588	141762
15°	142389	130417	142389	127423
20°	137318	109442	137318	105181
25°	128333	85266	128333	80849
30°	113632	62649	113632	59464
35°	94209	45556	94209	42583
40°	70111	33098	70111	32076
45°	49519	26375	49519	25461
50°	36317	22173	36317	21837
55°	27949	19678	27949	19413
60°	22726	18111	22726	18238
65°	19618	17399	19618	17565
70°	18116	17163	18116	17333
75°	16989	16989	16989	17154
80°	15501	17078	15501	17078
85°	12926	15405	12926	15857

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 51884 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2923.4	7.6
10°-20°	7857.0	20.4
20°-30°	9554.0	24.8
30°-40°	7782.5	20.2
40°-50°	4672.6	12.1
50°-60°	2689.1	7.0
60°-70°	1682.9	4.4
70°-80°	991.2	2.6
80°-90°	289.9	0.8
90°-100°	0.1	0.0
100°-110°	0.2	0.0
110°-120°	0.2	0.0
120°-130°	0.5	0.0
130°-140°	2.0	0.0
140°-150°	3.6	0.0
150°-160°	3.9	0.0
160°-170°	3.5	0.0
170°-180°	1.5	0.0
0°-30°	20334.4	52.9
0°-40°	28116.8	73.1
0°-60°	35478.5	92.3
0°-90°	38442.5	100.0
90°-120°	0.5	0.0
90°-150°	6.5	0.0
90°-180°	15.0	0.0
0°-180°	38458.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	30957	30957	30957	30957	30957	
5°	30831	30835	30831	30867	30831	2927
15°	29288	26825	29288	26209	29288	8211
25°	24767	16456	24767	15603	24767	11291
35°	16433	7946	16433	7428	16433	10147
45°	7456	3971	7456	3834	7456	5940
55°	3414	2404	3414	2371	3414	3139
65°	1766	1566	1766	1581	1766	1784
75°	936	936	936	945	936	989
85°	240	286	240	294	240	263
90°	0	1	0	1	0	10
95°	0	1	0	1	0	0
105°	0	1	0	1	0	0
115°	0	1	0	1	0	0
125°	0	2	0	2	0	0
135°	3	3	3	3	3	2
145°	5	6	5	6	5	3
155°	6	10	6	10	6	3
165°	11	15	11	15	11	3
175°	14	19	14	19	14	1
180°	18	18	18	18	18	



TEST NUMBER: P1431903
 CATALOG NUMBER: EHBR1-42-UNV-TA-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	30956.6	30956.6	30956.6	30956.6	30956.6	30956.6	30956.6	30956.6	30956.6	30956.6	30956.6
2.5°	30941.6	30934.5	30928.1	30916.4	30888.5	30916.4	30928.1	30934.5	30941.6	30961.1	30969.5
5°	30831.4	30859.3	30830.1	30836.6	30834.7	30836.6	30830.1	30859.3	30831.4	30850.9	30885.9
7.5°	30638.8	30633.6	30624.0	30585.7	30520.8	30585.7	30624.0	30633.6	30638.8	30662.9	30687.5
10°	30321.2	30341.9	30273.1	30032.7	29924.3	30032.7	30273.1	30341.9	30321.2	30360.1	30235.6
12.5°	29849.8	29900.4	29622.2	28997.2	28616.6	28997.2	29622.2	29900.4	29849.8	29884.1	29460.2
15°	29287.6	29245.5	28697.0	27383.4	26825.1	27383.4	28697.0	29245.5	29287.6	29245.5	28466.8
17.5°	28412.3	28473.3	27408.7	25474.5	24443.7	25474.5	27408.7	28473.3	28412.3	28432.5	26954.2
20°	27477.4	27496.2	25720.3	22998.5	21899.4	22998.5	25720.3	27496.2	27477.4	27364.5	25235.9
22.5°	26287.6	26294.8	23785.6	20439.3	19021.9	20439.3	23785.6	26294.8	26287.6	26099.6	23143.7
25°	24767.2	24823.0	21608.3	17845.8	16455.7	17845.8	21608.3	24823.0	24767.2	24553.2	20819.2
27.5°	23060.1	23098.3	19283.9	15247.8	13802.5	15247.8	19283.9	23098.3	23060.1	22826.7	18597.2
30°	20955.4	21200.5	16949.7	12874.7	11553.3	12874.7	16949.7	21200.5	20955.4	20928.9	16306.6
32.5°	18782.0	19215.8	14749.2	10759.1	9626.4	10759.1	14749.2	19215.8	18782.0	18905.9	14023.7
35°	16433.1	16920.6	12465.6	8944.3	7946.4	8944.3	12465.6	16920.6	16433.1	16593.1	11928.8
37.5°	13942.7	14688.3	10530.2	7408.9	6449.4	7408.9	10530.2	14688.3	13942.7	14244.7	10086.1
40°	11436.7	12238.7	8694.6	6160.2	5399.0	6160.2	8694.6	12238.7	11436.7	11928.8	8327.7
42.5°	9284.7	9900.0	7176.2	5148.7	4652.1	5148.7	7176.2	9900.0	9284.7	9633.5	6863.6
45°	7456.3	7812.3	5937.8	4367.5	3971.3	4367.5	5937.8	7812.3	7456.3	7779.8	5680.4
47.5°	6087.6	6308.7	4888.1	3774.2	3468.8	3774.2	4888.1	6308.7	6087.6	6190.0	4744.1
50°	4971.0	5091.6	4109.4	3271.0	3035.0	3271.0	4109.4	5091.6	4971.0	5033.9	3973.9
52.5°	4125.0	4184.6	3446.7	2871.0	2697.9	2871.0	3446.7	4184.6	4125.0	4134.7	3386.4
55°	3413.7	3428.0	2942.3	2524.1	2403.5	2524.1	2942.3	3428.0	3413.7	3416.3	2893.1
57.5°	2858.7	2879.4	2528.7	2245.9	2146.2	2245.9	2528.7	2879.4	2858.7	2863.3	2505.4
60°	2419.7	2433.3	2185.0	1995.1	1928.3	1995.1	2185.0	2433.3	2419.7	2413.9	2171.4
62.5°	2059.8	2085.9	1909.4	1777.9	1735.0	1777.9	1909.4	2085.9	2059.8	2065.7	1908.8
65°	1765.5	1782.4	1673.4	1580.7	1565.8	1580.7	1673.4	1782.4	1765.5	1779.8	1678.6
67.5°	1523.7	1543.2	1469.9	1415.4	1400.5	1415.4	1469.9	1543.2	1523.7	1535.4	1471.2
70°	1319.4	1319.4	1279.9	1249.4	1250.0	1249.4	1279.9	1319.4	1319.4	1321.4	1287.0
72.5°	1119.1	1126.2	1099.6	1090.6	1094.5	1090.6	1099.6	1126.2	1119.1	1143.7	1107.4
75°	936.3	944.1	930.4	925.2	936.3	925.2	930.4	944.1	936.3	949.2	933.0
77.5°	747.6	761.9	759.9	766.3	787.1	766.3	759.9	761.9	747.6	767.0	770.9
80°	573.2	585.4	586.1	602.3	631.5	602.3	586.1	585.4	573.2	585.4	595.2
82.5°	403.3	411.0	416.2	443.5	468.7	443.5	416.2	411.0	403.3	410.4	423.4
85°	239.9	233.4	242.5	259.3	285.9	259.3	242.5	233.4	239.9	239.9	246.4
87.5°	76.5	74.6	74.0	90.1	103.1	90.1	74.0	74.6	76.5	79.1	82.3
90°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0



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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°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.7	2.0	0.7	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.7	2.0	0.7	0.0	0.0	0.0	0.0	0.7
127.5°	0.0	0.0	0.0	0.7	2.0	0.7	0.0	0.0	0.0	0.0	0.7
130°	0.7	0.0	0.7	1.3	2.0	1.3	0.7	0.0	0.7	0.7	1.3
132.5°	1.3	1.3	2.0	2.0	2.6	2.0	2.0	1.3	1.3	2.0	2.0
135°	2.6	2.0	2.6	2.6	3.3	2.6	2.6	2.0	2.6	2.6	2.6
137.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
140°	3.9	3.9	3.9	3.9	4.6	3.9	3.9	3.9	3.9	3.9	3.9
142.5°	4.6	4.6	4.6	5.2	5.2	5.2	4.6	4.6	4.6	5.2	5.2
145°	5.2	5.2	5.2	5.9	5.9	5.9	5.2	5.2	5.2	5.9	5.9
147.5°	5.9	5.9	5.9	7.2	7.8	7.2	5.9	5.9	5.9	5.9	6.5
150°	6.5	6.5	6.5	7.8	8.5	7.8	6.5	6.5	6.5	6.5	7.2
152.5°	6.5	6.5	7.2	8.5	9.1	8.5	7.2	6.5	6.5	6.5	7.8
155°	6.5	6.5	7.8	9.1	9.8	9.1	7.8	6.5	6.5	7.2	8.5
157.5°	7.8	7.8	9.1	10.4	11.7	10.4	9.1	7.8	7.8	8.5	9.8
160°	9.1	9.1	10.4	11.7	13.0	11.7	10.4	9.1	9.1	9.8	11.1
162.5°	9.8	10.4	11.1	13.0	14.3	13.0	11.1	10.4	9.8	10.4	11.7
165°	11.1	11.1	12.4	13.7	15.0	13.7	12.4	11.1	11.1	11.1	13.0
167.5°	11.7	11.7	13.0	15.0	15.5	15.0	13.0	11.7	11.7	11.7	13.7
170°	11.7	12.4	13.7	15.5	16.2	15.5	13.7	12.4	11.7	12.4	14.3
172.5°	13.0	13.7	15.0	16.8	17.5	16.8	15.0	13.7	13.0	13.7	15.5
175°	14.3	15.0	16.8	18.1	19.4	18.1	16.8	15.0	14.3	15.0	16.8
177.5°	15.0	15.5	17.5	18.8	20.1	18.8	17.5	15.5	15.0	15.5	17.5
180°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	30956.6	30956.6	30956.6	30956.6	30956.6	30956.6
2.5°	30955.9	30967.6	30955.9	30969.5	30961.1	30941.6
5°	30872.3	30867.1	30872.3	30885.9	30850.9	30831.4
7.5°	30548.1	30527.3	30548.1	30687.5	30662.9	30638.8
10°	29871.2	29728.6	29871.2	30235.6	30360.1	30321.2
12.5°	28691.1	28249.0	28691.1	29460.2	29884.1	29849.8
15°	26968.5	26209.2	26968.5	28466.8	29245.5	29287.6
17.5°	24739.3	23870.5	24739.3	26954.2	28432.5	28412.3
20°	22315.1	21046.8	22315.1	25235.9	27364.5	27477.4
22.5°	19667.8	18302.2	19667.8	23143.7	26099.6	26287.6
25°	17026.9	15603.1	17026.9	20819.2	24553.2	24767.2
27.5°	14558.6	13203.5	14558.6	18597.2	22826.7	23060.1
30°	12273.0	10966.0	12273.0	16306.6	20928.9	20955.4
32.5°	10361.7	9066.2	10361.7	14023.7	18905.9	18782.0
35°	8502.1	7427.8	8502.1	11928.8	16593.1	16433.1
37.5°	7100.3	6239.3	7100.3	10086.1	14244.7	13942.7
40°	5922.3	5232.4	5922.3	8327.7	11928.8	11436.7
42.5°	4951.0	4434.8	4951.0	6863.6	9633.5	9284.7
45°	4221.5	3833.8	4221.5	5680.4	7779.8	7456.3
47.5°	3684.0	3369.0	3684.0	4744.1	6190.0	6087.6
50°	3205.5	2989.0	3205.5	3973.9	5033.9	4971.0
52.5°	2819.8	2662.8	2819.8	3386.4	4134.7	4125.0
55°	2498.9	2371.1	2498.9	2893.1	3416.3	3413.7
57.5°	2219.4	2137.1	2219.4	2505.4	2863.3	2858.7
60°	1970.4	1941.8	1970.4	2171.4	2413.9	2419.7
62.5°	1779.8	1737.6	1779.8	1908.8	2065.7	2059.8
65°	1590.5	1580.7	1590.5	1678.6	1779.8	1765.5
67.5°	1419.3	1410.9	1419.3	1471.2	1535.4	1523.7
70°	1255.9	1262.4	1255.9	1287.0	1321.4	1319.4
72.5°	1097.7	1099.0	1097.7	1107.4	1143.7	1119.1
75°	945.4	945.4	945.4	933.0	949.2	936.3
77.5°	779.3	798.8	779.3	770.9	767.0	747.6
80°	612.8	631.5	612.8	595.2	585.4	573.2
82.5°	444.1	474.6	444.1	423.4	410.4	403.3
85°	275.6	294.3	275.6	246.4	239.9	239.9
87.5°	103.8	113.4	103.8	82.3	79.1	76.5
90°	0.0	0.7	0.0	0.0	0.0	0.0
92.5°	0.0	0.7	0.0	0.0	0.0	0.0
95°	0.0	0.7	0.0	0.0	0.0	0.0
97.5°	0.0	0.7	0.0	0.0	0.0	0.0
100°	0.0	1.3	0.0	0.0	0.0	0.0
102.5°	0.0	1.3	0.0	0.0	0.0	0.0
105°	0.0	1.3	0.0	0.0	0.0	0.0
107.5°	0.0	1.3	0.0	0.0	0.0	0.0
110°	0.0	1.3	0.0	0.0	0.0	0.0



TEST NUMBER: P1431903
 CATALOG NUMBER: EHBR1-42-UNV-TA-L950

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	1.3	0.0	0.0	0.0	0.0
115°	0.0	1.3	0.0	0.0	0.0	0.0
117.5°	0.0	1.3	0.0	0.0	0.0	0.0
120°	0.7	1.3	0.7	0.0	0.0	0.0
122.5°	0.7	2.0	0.7	0.0	0.0	0.0
125°	0.7	2.0	0.7	0.7	0.0	0.0
127.5°	1.3	2.0	1.3	0.7	0.0	0.0
130°	1.3	2.0	1.3	1.3	0.7	0.7
132.5°	2.6	2.6	2.6	2.0	2.0	1.3
135°	2.6	3.3	2.6	2.6	2.6	2.6
137.5°	3.3	3.9	3.3	3.3	3.3	3.3
140°	4.6	4.6	4.6	3.9	3.9	3.9
142.5°	5.2	5.9	5.2	5.2	5.2	4.6
145°	6.5	6.5	6.5	5.9	5.9	5.2
147.5°	7.2	7.8	7.2	6.5	5.9	5.9
150°	8.5	9.1	8.5	7.2	6.5	6.5
152.5°	8.5	9.8	8.5	7.8	6.5	6.5
155°	9.8	10.4	9.8	8.5	7.2	6.5
157.5°	11.1	11.7	11.1	9.8	8.5	7.8
160°	12.4	13.0	12.4	11.1	9.8	9.1
162.5°	13.7	14.3	13.7	11.7	10.4	9.8
165°	14.3	15.0	14.3	13.0	11.1	11.1
167.5°	15.0	15.5	15.0	13.7	11.7	11.7
170°	15.5	16.2	15.5	14.3	12.4	11.7
172.5°	16.8	17.5	16.8	15.5	13.7	13.0
175°	18.1	19.4	18.1	16.8	15.0	14.3
177.5°	18.8	20.1	18.8	17.5	15.5	15.0
180°	17.5	17.5	17.5	17.5	17.5	17.5



TEST NUMBER: P1431903
 CATALOG NUMBER: EHBR1-42-UNV-TA-L950

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	21.04	22.30	21.40	22.62	22.93	19.30	20.57	19.67	20.88	21.20
	3H	22.27	23.40	22.65	23.73	24.10	21.00	22.12	21.38	22.45	22.82
	4H	22.78	23.83	23.19	24.18	24.57	21.72	22.77	22.12	23.12	23.51
	6H	23.17	24.13	23.59	24.51	24.90	22.33	23.29	22.74	23.66	24.06
	8H	23.29	24.21	23.72	24.60	25.01	22.55	23.46	22.98	23.86	24.26
	12H	23.36	24.24	23.80	24.62	25.05	22.70	23.57	23.13	23.95	24.38
4H	2H	21.33	22.38	21.73	22.73	23.12	19.91	20.96	20.31	21.31	21.69
	3H	22.83	23.69	23.24	24.09	24.50	21.82	22.68	22.23	23.09	23.49
	4H	23.48	24.26	23.92	24.68	25.12	22.67	23.44	23.10	23.86	24.31
	6H	24.01	24.68	24.48	25.13	25.60	23.41	24.08	23.87	24.52	24.99
	8H	24.18	24.81	24.65	25.25	25.73	23.68	24.31	24.15	24.75	25.23
	12H	24.29	24.84	24.78	25.33	25.80	23.87	24.42	24.36	24.91	25.38
8H	4H	23.69	24.32	24.16	24.76	25.24	22.97	23.59	23.44	24.04	24.51
	6H	24.35	24.86	24.86	25.36	25.84	23.84	24.35	24.35	24.85	25.33
	8H	24.60	25.05	25.12	25.57	26.06	24.20	24.66	24.73	25.18	25.67
	12H	24.78	25.18	25.30	25.67	26.25	24.48	24.88	25.00	25.38	25.95
12H	4H	23.70	24.25	24.19	24.74	25.21	22.99	23.54	23.47	24.02	24.50
	6H	24.39	24.85	24.91	25.36	25.86	23.89	24.35	24.42	24.87	25.36
	8H	24.69	25.09	25.21	25.59	26.16	24.31	24.71	24.83	25.21	25.78

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: SP1-2506-472-8

Test Date: 08/04/2025

Luminaire Tested: EHBR-60-L950-N

Data in this report applies to families of products including EHBR-60-L950-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-8
 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-L950-N**
 Description: Elevate Round Highbay at, 60000 lumens, 5000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K): 4901
 CIE u': 0.2131
 CIE v': 0.4853
 Duv: -0.0008
 CIE x: 0.3477
 CIE y: 0.3520
 CIE z: 0.3003
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 574
 Purity: 9.953987
 Rf: 90.7
 Rg: 100.5

CRI (Ra):	94.3		
R1:	95.8	R9:	72.3
R2:	96.5	R10:	89.1
R3:	94.4	R11:	94.9
R4:	95.3	R12:	68.4
R5:	94.1	R13:	96.4
R6:	92.5	R14:	96.4
R7:	95.5	R15:	93.9
R8:	90.1		



Test Conditions
 Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-8

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: SP1-2506-472-8

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: SP1-2506-472-8

Photopic Flux vs. Wavelength

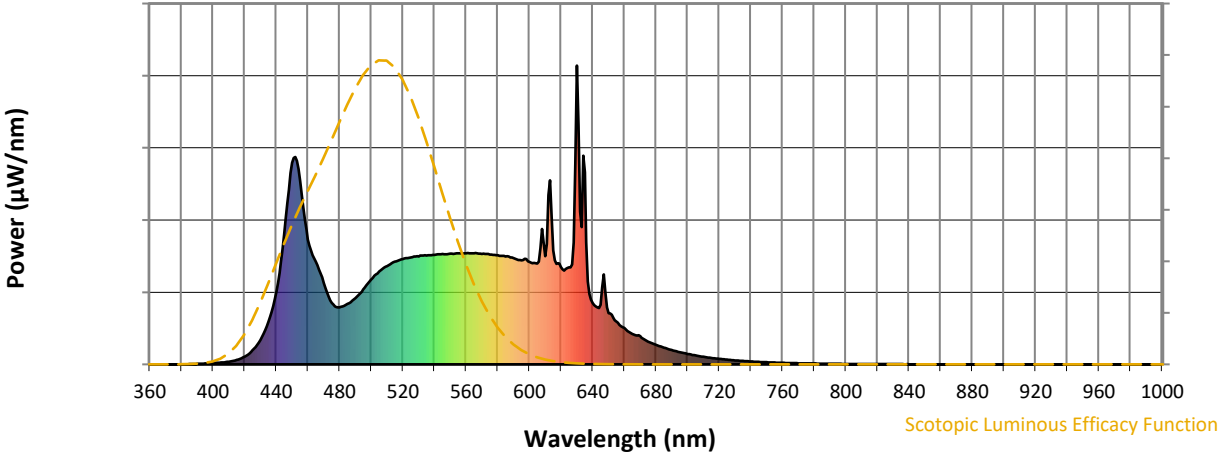


Photopic Lumens: NR

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-8

Scotopic Flux vs. Wavelength

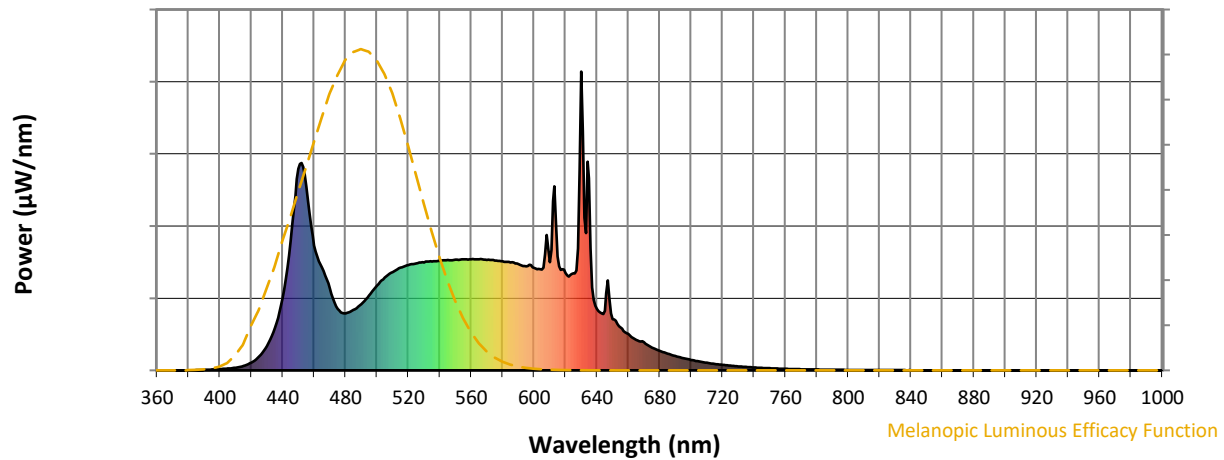


Scotopic Lumens: NR S/P: 2.04

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.41

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

Summary

$R_f = 90.7$
 $R_g = 100.5$
 CIE $R_a = 94.3$
 $R_9 = 72.3$



Color Vector Graphics

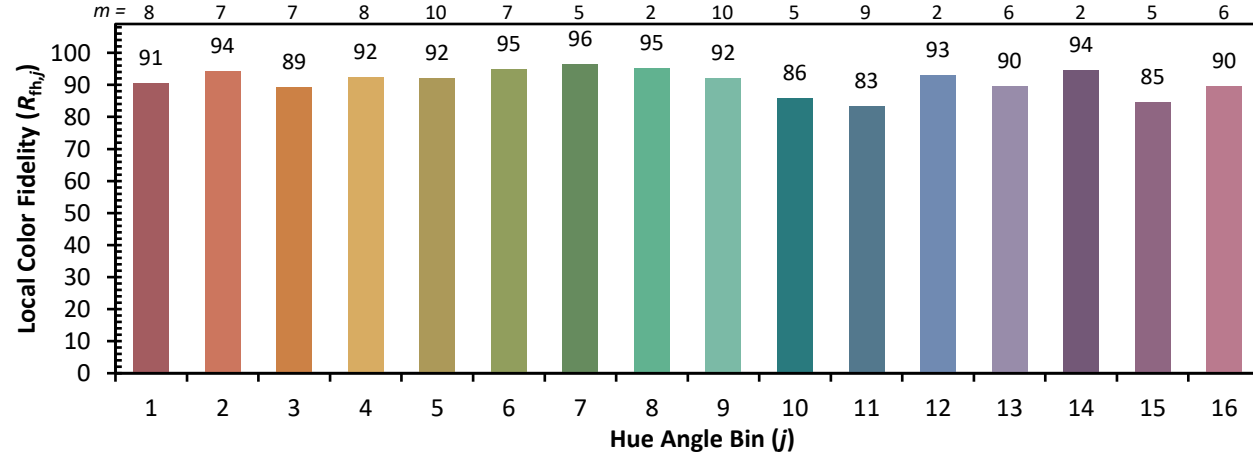


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 91	CES51 = 98	CES76 = 83
CES02 = 61	CES27 = 92	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 69	CES29 = 94	CES54 = 93	CES79 = 94
CES05 = 48	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 95	CES81 = 84
CES07 = 41	CES32 = 86	CES57 = 94	CES82 = 96
CES08 = 40	CES33 = 99	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 90	CES59 = 97	CES84 = 93
CES10 = 73	CES35 = 94	CES60 = 92	CES85 = 83
CES11 = 56	CES36 = 81	CES61 = 92	CES86 = 86
CES12 = 62	CES37 = 92	CES62 = 86	CES87 = 91
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 97	CES65 = 88	CES90 = 98
CES16 = 47	CES41 = 97	CES66 = 85	CES91 = 73
CES17 = 48	CES42 = 90	CES67 = 84	CES92 = 79
CES18 = 56	CES43 = 91	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 99	CES69 = 87	CES94 = 78
CES20 = 65	CES45 = 95	CES70 = 83	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 77	CES96 = 92
CES22 = 77	CES47 = 95	CES72 = 92	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 77	CES98 = 95
CES24 = 90	CES49 = 95	CES74 = 92	CES99 = 94
CES25 = 70	CES50 = 98	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)