

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: P1433808

Luminaire Tested: EHBR1-30-UNV-TASM-L940-UPL36

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number: P1433808
REPORT IS A COMBINATION OF REPORTS P1431745 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-30-UNV-TASM-L940-UPL36
Description: Elevate Round Highbay at, 30000 lumens, 4000K 90CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

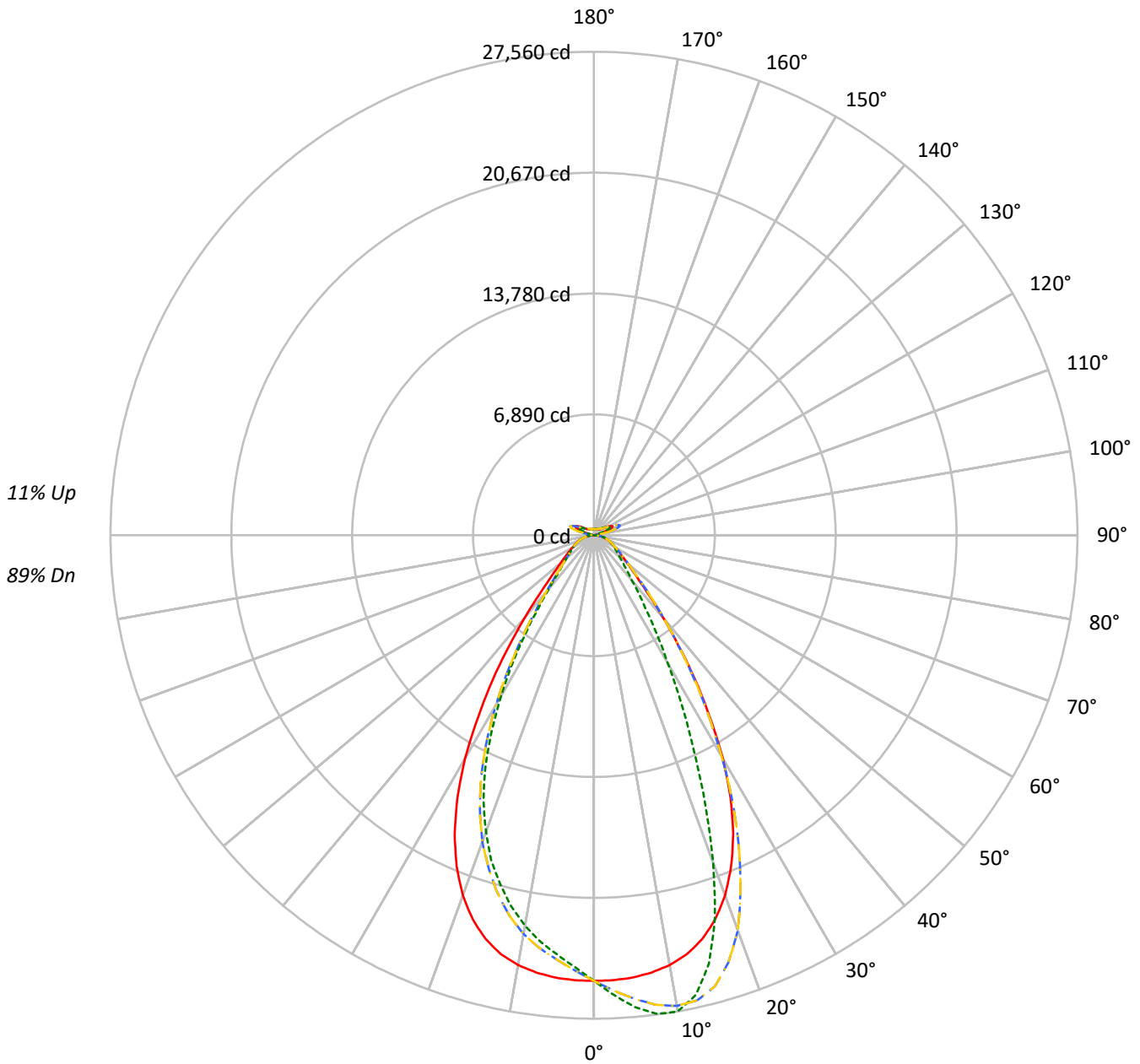
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31829.6 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.84 / 0.9
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 188.2
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

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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	0
RCR																		
0	116	116	116	116	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	109	106	103	100	106	102	100	97	96	94	92	91	89	87	86	84	83	81
2	102	96	91	87	99	93	89	85	88	85	82	84	81	78	79	77	75	73
3	96	88	82	77	93	86	80	76	81	77	73	77	74	71	74	71	68	66
4	90	81	74	69	87	79	73	68	75	70	66	72	68	64	69	65	62	60
5	84	75	68	63	82	73	67	62	70	64	60	67	62	59	64	60	57	55
6	79	69	62	57	77	68	61	57	65	59	55	62	58	54	60	56	53	51
7	75	64	57	53	73	63	57	52	61	55	51	59	54	50	56	52	49	47
8	71	60	53	49	69	59	53	48	57	51	47	55	50	46	53	49	46	44
9	67	56	50	45	65	55	49	45	53	48	44	52	47	43	50	46	43	41
10	64	53	46	42	62	52	46	42	50	45	41	49	44	41	47	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	119273	119273	119273	119273
5°	118548	126468	118548	112396
10°	117091	129715	117091	106373
15°	113633	120546	113633	98260
20°	106275	96661	106275	87522
25°	94063	66972	94063	73347
30°	76376	43570	76376	54878
35°	54779	28217	54779	36533
40°	35416	19449	35416	23040
45°	22471	15065	22471	16416
50°	16687	12802	16687	13674
55°	13624	11662	13624	12070
60°	11798	11108	11798	11176
65°	10754	10714	10754	10668
70°	10193	10498	10193	10362
75°	9532	10154	9532	9850
80°	8375	9588	8375	8963
85°	5418	6843	5418	6526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 31594 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2415.0	7.6
10°-20°	6570.2	20.6
20°-30°	7705.5	24.2
30°-40°	5358.7	16.8
40°-50°	2663.0	8.4
50°-60°	1592.8	5.0
60°-70°	1121.0	3.5
70°-80°	722.2	2.3
80°-90°	235.4	0.7
90°-100°	91.6	0.3
100°-110°	599.5	1.9
110°-120°	1107.8	3.5
120°-130°	658.2	2.1
130°-140°	397.8	1.2
140°-150°	274.9	0.9
150°-160°	179.2	0.6
160°-170°	102.7	0.3
170°-180°	34.1	0.1
0°-30°	16690.7	52.4
0°-40°	22049.3	69.3
0°-60°	26305.1	82.6
0°-90°	28383.7	89.2
90°-120°	1799.0	5.7
90°-150°	3130.0	9.8
90°-180°	3446.0	10.8
0°-180°	31829.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	25398	25398	25398	25398	25398	
5°	25312	27003	25312	23998	25312	2402
15°	23840	25290	23840	20614	23840	6662
25°	18784	13374	18784	14647	18784	8504
35°	10054	5179	10054	6705	10054	6276
45°	3636	2438	3636	2656	3636	2975
55°	1841	1576	1841	1631	1841	1684
65°	1122	1118	1122	1114	1122	1127
75°	672	715	672	694	672	705
85°	186	235	186	224	186	207
90°	25	29	25	25	25	20
95°	48	46	48	42	48	52
105°	275	140	275	209	275	371
115°	1179	1007	1179	958	1179	1075
125°	754	790	754	691	754	695
135°	476	550	476	505	476	378
145°	431	450	431	419	431	270
155°	383	399	383	371	383	179
165°	360	370	360	352	360	102
175°	358	364	358	352	358	34
180°	357	357	357	357	357	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	25398.4	25398.4	25398.4	25398.4	25398.4	25398.4	25398.4	25398.4	25398.4	25398.4	25398.4
2.5°	25383.7	25711.8	25977.6	26152.9	26239.5	26152.9	25977.6	25711.8	25383.7	25057.5	24833.1
5°	25311.8	25969.1	26525.8	26890.1	27003.0	26890.1	26525.8	25969.1	25311.8	24690.8	24278.8
7.5°	25139.9	26163.8	26991.1	27416.4	27520.2	27416.4	26991.1	26163.8	25139.9	24260.7	23740.1
10°	24877.5	26286.7	27242.5	27547.4	27559.8	27547.4	27242.5	26286.7	24877.5	23693.0	23079.1
12.5°	24458.8	26242.9	27158.2	27058.3	26831.0	27058.3	27158.2	26242.9	24458.8	22999.5	22225.2
15°	23839.7	25983.3	26624.4	25810.4	25289.9	25810.4	26624.4	25983.3	23839.7	22063.2	21165.0
17.5°	22967.1	25497.6	25510.0	23899.7	22917.7	23899.7	25510.0	25497.6	22967.1	20918.3	19929.1
20°	21842.7	24718.3	23975.4	21030.2	19866.7	21030.2	23975.4	24718.3	21842.7	19564.8	18594.2
22.5°	20433.0	23667.7	21838.4	18143.6	16556.2	18143.6	21838.4	23667.7	20433.0	17990.7	16980.6
25°	18784.2	22380.4	19539.5	14998.4	13374.3	14998.4	19539.5	22380.4	18784.2	16115.2	15201.8
27.5°	16844.8	20748.8	17091.5	12256.1	10757.8	12256.1	17091.5	20748.8	16844.8	14178.7	13245.8
30°	14690.8	18657.0	14544.0	9760.5	8380.7	9760.5	14544.0	18657.0	14690.8	12003.1	11167.8
32.5°	12278.9	16606.7	12097.5	7820.7	6652.0	7820.7	12097.5	16606.7	12278.9	9927.2	9054.2
35°	10053.9	14041.6	9891.5	6145.2	5178.8	6145.2	9891.5	14041.6	10053.9	7967.3	7110.0
37.5°	7890.2	11617.9	7885.0	4948.3	4200.6	4948.3	7885.0	11617.9	7890.2	6194.2	5498.4
40°	6138.5	9084.2	6178.0	3950.1	3371.0	3950.1	6178.0	9084.2	6138.5	4713.1	4267.8
42.5°	4651.1	6946.3	4855.9	3241.9	2863.3	3241.9	4855.9	6946.3	4651.1	3713.4	3380.0
45°	3635.7	5111.7	3792.0	2735.1	2437.5	2735.1	3792.0	5111.7	3635.7	2990.4	2766.6
47.5°	2960.9	3950.6	3073.3	2346.1	2137.5	2346.1	3073.3	3950.6	2960.9	2529.4	2361.8
50°	2487.0	3031.4	2551.8	2047.9	1907.9	2047.9	2551.8	3031.4	2487.0	2166.1	2054.1
52.5°	2136.5	2472.3	2173.2	1825.0	1730.7	1825.0	2173.2	2472.3	2136.5	1895.1	1825.5
55°	1841.2	2078.4	1889.8	1641.2	1576.0	1641.2	1889.8	2078.4	1841.2	1686.5	1635.0
57.5°	1616.9	1763.1	1641.2	1484.5	1441.2	1484.5	1641.2	1763.1	1616.9	1500.7	1473.1
60°	1418.3	1526.9	1448.3	1347.8	1335.4	1347.8	1448.3	1526.9	1418.3	1350.2	1332.1
62.5°	1265.5	1334.0	1280.6	1224.9	1214.0	1224.9	1280.6	1334.0	1265.5	1213.0	1216.4
65°	1122.5	1186.4	1144.4	1114.4	1118.3	1114.4	1144.4	1186.4	1122.5	1098.2	1103.5
67.5°	1012.0	1045.4	1027.3	1010.2	1014.5	1010.2	1027.3	1045.4	1012.0	988.2	996.3
70°	894.4	930.2	911.5	913.9	921.1	913.9	911.5	930.2	894.4	887.3	893.4
72.5°	782.0	809.6	803.5	809.1	816.8	809.1	803.5	809.6	782.0	781.1	781.6
75°	671.5	692.5	695.4	703.4	715.3	703.4	695.4	692.5	671.5	664.4	672.9
77.5°	551.1	574.8	583.9	594.9	612.5	594.9	583.9	574.8	551.1	555.8	560.1
80°	440.6	451.5	471.5	479.6	504.4	479.6	471.5	451.5	440.6	432.5	438.6
82.5°	322.4	332.4	349.6	364.8	379.1	364.8	349.6	332.4	322.4	318.6	319.1
85°	186.2	201.4	212.9	231.0	235.2	231.0	212.9	201.4	186.2	190.5	186.2
87.5°	65.2	70.0	80.0	87.2	87.7	87.2	80.0	70.0	65.2	66.7	60.5
90°	25.2	42.9	73.8	41.0	28.6	41.0	73.8	42.9	25.2	44.3	69.0
92.5°	32.9	58.1	104.3	54.3	38.1	54.3	104.3	58.1	32.9	57.7	111.0
95°	48.5	71.5	132.9	60.1	45.7	60.1	132.9	71.5	48.5	76.7	154.8
97.5°	75.3	88.6	150.0	63.9	55.2	63.9	150.0	88.6	75.3	93.8	177.7
100°	100.1	100.1	273.9	73.4	62.9	73.4	273.9	100.1	100.1	115.2	276.8
102.5°	151.5	195.7	634.5	146.3	76.2	146.3	634.5	195.7	151.5	216.2	587.4
105°	275.3	447.3	1116.7	376.9	139.6	376.9	1116.7	447.3	275.3	452.6	1046.6
107.5°	521.2	834.1	1438.6	742.7	324.4	742.7	1438.6	834.1	521.2	801.3	1380.6
110°	833.6	1165.7	1570.2	1017.2	656.0	1017.2	1570.2	1165.7	833.6	1100.5	1447.3



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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°	1085.2	1299.1	1534.0	1127.7	907.5	1127.7	1534.0	1299.1	1085.2	1214.8	1386.3
115°	1179.1	1280.1	1370.1	1123.8	1006.6	1123.8	1370.1	1280.1	1179.1	1186.2	1237.7
117.5°	1139.0	1171.5	1183.3	1055.3	1012.3	1055.3	1183.3	1171.5	1139.0	1066.6	1050.9
120°	1028.5	1015.2	997.1	954.3	955.2	954.3	997.1	1015.2	1028.5	931.4	877.5
122.5°	889.9	861.3	842.8	851.8	877.1	851.8	842.8	861.3	889.9	792.6	752.2
125°	754.5	726.0	734.6	764.1	789.8	764.1	734.6	726.0	754.5	673.2	663.1
127.5°	640.8	627.5	656.5	689.8	711.7	689.8	656.5	627.5	640.8	589.4	600.3
130°	559.4	562.6	601.3	629.3	643.1	629.3	601.3	562.6	559.4	534.6	560.8
132.5°	508.3	523.1	559.8	584.0	592.2	584.0	559.8	523.1	508.3	501.1	533.1
135°	476.4	498.3	531.7	547.3	550.2	547.3	531.7	498.3	476.4	478.8	508.3
137.5°	457.8	479.7	505.0	517.3	514.0	517.3	505.0	479.7	457.8	464.0	486.4
140°	446.8	468.8	480.2	494.5	491.6	494.5	480.2	468.8	446.8	450.6	467.8
142.5°	435.9	455.9	461.6	472.1	468.7	472.1	461.6	455.9	435.9	439.7	451.1
145°	430.6	445.4	441.1	454.9	450.2	454.9	441.1	445.4	430.6	432.1	438.2
147.5°	421.1	432.1	426.3	438.2	433.6	438.2	426.3	432.1	421.1	421.1	423.4
150°	410.1	417.8	409.6	423.4	422.6	423.4	409.6	417.8	410.1	408.2	410.7
152.5°	395.5	403.0	395.5	411.1	409.7	411.1	395.5	403.0	395.5	393.5	395.9
155°	383.0	386.8	383.0	398.7	399.2	398.7	383.0	386.8	383.0	382.5	383.5
157.5°	374.4	376.9	374.9	388.7	389.1	388.7	374.9	376.9	374.4	374.4	374.9
160°	366.8	370.6	369.2	381.1	381.6	381.1	369.2	370.6	366.8	368.2	368.7
162.5°	364.0	364.0	363.1	374.9	375.8	374.9	363.1	364.0	364.0	364.0	365.9
165°	359.7	361.6	358.7	367.3	370.1	367.3	358.7	361.6	359.7	361.1	361.1
167.5°	358.7	356.8	357.8	364.9	367.8	364.9	357.8	356.8	358.7	360.2	360.2
170°	355.3	355.8	355.0	362.0	364.9	362.0	355.0	355.8	355.3	357.3	358.7
172.5°	356.8	356.8	354.4	359.6	364.5	359.6	354.4	356.8	356.8	358.3	360.2
175°	357.8	356.4	355.3	358.8	363.5	358.8	355.3	356.4	357.8	357.3	357.3
177.5°	355.9	356.8	357.8	361.1	367.8	361.1	357.8	356.8	355.9	357.3	357.3
180°	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	25398.4	25398.4	25398.4	25398.4	25398.4	25398.4
2.5°	24660.8	24644.6	24660.8	24833.1	25057.5	25383.7
5°	24087.8	23998.3	24087.8	24278.8	24690.8	25311.8
7.5°	23420.6	23368.7	23420.6	23740.1	24260.7	25139.9
10°	22718.1	22600.4	22718.1	23079.1	23693.0	24877.5
12.5°	21852.2	21696.5	21852.2	22225.2	22999.5	24458.8
15°	20751.1	20614.4	20751.1	21165.0	22063.2	23839.7
17.5°	19569.5	19445.7	19569.5	19929.1	20918.3	22967.1
20°	18085.5	17988.3	18085.5	18594.2	19564.8	21842.7
22.5°	16528.6	16437.7	16528.6	16980.6	17990.7	20433.0
25°	14696.9	14647.3	14696.9	15201.8	16115.2	18784.2
27.5°	12717.6	12633.3	12717.6	13245.8	14178.7	16844.8
30°	10695.4	10555.8	10695.4	11167.8	12003.1	14690.8
32.5°	8717.5	8617.0	8717.5	9054.2	9927.2	12278.9
35°	6805.8	6705.2	6805.8	7110.0	7967.3	10053.9
37.5°	5303.1	5125.5	5303.1	5498.4	6194.2	7890.2
40°	4022.0	3993.4	4022.0	4267.8	4713.1	6138.5
42.5°	3274.3	3196.7	3274.3	3380.0	3713.4	4651.1
45°	2686.6	2656.1	2686.6	2766.6	2990.4	3635.7
47.5°	2310.3	2323.7	2310.3	2361.8	2529.4	2960.9
50°	2029.8	2037.9	2029.8	2054.1	2166.1	2487.0
52.5°	1823.1	1816.0	1823.1	1825.5	1895.1	2136.5
55°	1640.3	1631.2	1640.3	1635.0	1686.5	1841.2
57.5°	1480.2	1486.9	1480.2	1473.1	1500.7	1616.9
60°	1337.4	1343.5	1337.4	1332.1	1350.2	1418.3
62.5°	1216.8	1220.6	1216.8	1216.4	1213.0	1265.5
65°	1109.2	1113.5	1109.2	1103.5	1098.2	1122.5
67.5°	1006.4	1006.4	1006.4	996.3	988.2	1012.0
70°	909.7	909.2	909.7	893.4	887.3	894.4
72.5°	793.5	804.8	793.5	781.6	781.1	782.0
75°	680.6	693.9	680.6	672.9	664.4	671.5
77.5°	566.3	586.8	566.3	560.1	555.8	551.1
80°	449.1	471.5	449.1	438.6	432.5	440.6
82.5°	331.9	348.6	331.9	319.1	318.6	322.4
85°	197.6	224.3	197.6	186.2	190.5	186.2
87.5°	63.4	81.0	63.4	60.5	66.7	65.2
90°	40.5	25.2	40.5	69.0	44.3	25.2
92.5°	61.5	36.7	61.5	111.0	57.7	32.9
95°	71.0	42.4	71.0	154.8	76.7	48.5
97.5°	78.6	54.3	78.6	177.7	93.8	75.3
100°	92.0	71.5	92.0	276.8	115.2	100.1
102.5°	194.8	121.0	194.8	587.4	216.2	151.5
105°	410.2	208.6	410.2	1046.6	452.6	275.3
107.5°	734.1	361.1	734.1	1380.6	801.3	521.2
110°	974.2	673.6	974.2	1447.3	1100.5	833.6



TEST NUMBER: P1433808

CATALOG NUMBER: EHBR1-30-UNV-TASM-L940-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1046.6	909.9	1046.6	1386.3	1214.8	1085.2
115°	1006.6	957.5	1006.6	1237.7	1186.2	1179.1
117.5°	919.0	925.1	919.0	1050.9	1066.6	1139.0
120°	818.0	856.6	818.0	877.5	931.4	1028.5
122.5°	725.1	770.8	725.1	752.2	792.6	889.9
125°	645.0	691.2	645.0	663.1	673.2	754.5
127.5°	589.7	620.8	589.7	600.3	589.4	640.8
130°	546.4	573.1	546.4	560.8	534.6	559.4
132.5°	516.4	533.6	516.4	533.1	501.1	508.3
135°	490.2	505.0	490.2	508.3	478.8	476.4
137.5°	467.9	480.7	467.9	486.4	464.0	457.8
140°	447.8	458.8	447.8	467.8	450.6	446.8
142.5°	427.3	435.0	427.3	451.1	439.7	435.9
145°	413.0	418.8	413.0	438.2	432.1	430.6
147.5°	400.6	404.4	400.6	423.4	421.1	421.1
150°	388.3	392.1	388.3	410.7	408.2	410.1
152.5°	375.5	379.7	375.5	395.9	393.5	395.5
155°	366.8	371.1	366.8	383.5	382.5	383.0
157.5°	362.0	364.8	362.0	374.9	374.4	374.4
160°	357.8	360.2	357.8	368.7	368.2	366.8
162.5°	353.0	355.4	353.0	365.9	364.0	364.0
165°	352.1	352.5	352.1	361.1	361.1	359.7
167.5°	350.6	352.5	350.6	360.2	360.2	358.7
170°	351.0	351.5	351.0	358.7	357.3	355.3
172.5°	352.0	352.5	352.0	360.2	358.3	356.8
175°	351.1	351.6	351.1	357.3	357.3	357.8
177.5°	353.5	353.9	353.5	357.3	357.3	355.9
180°	356.8	356.8	356.8	356.8	356.8	356.8



TEST NUMBER: P1433808
 CATALOG NUMBER: EHBR1-30-UNV-TASM-L940-UPL36

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	16.92	17.97	17.47	18.50	19.08	16.24	17.29	16.79	17.82	18.40
	3H	18.47	19.40	19.03	19.94	20.57	18.09	19.02	18.65	19.56	20.19
	4H	19.10	19.97	19.69	20.53	21.17	18.87	19.74	19.45	20.30	20.94
	6H	19.58	20.38	20.18	20.96	21.61	19.51	20.31	20.10	20.88	21.53
	8H	19.73	20.49	20.34	21.08	21.74	19.73	20.49	20.34	21.08	21.73
	12H	19.80	20.53	20.41	21.11	21.79	19.85	20.58	20.46	21.16	21.84
4H	2H	17.33	18.21	17.92	18.76	19.40	16.81	17.68	17.40	18.24	18.88
	3H	19.13	19.85	19.72	20.45	21.11	18.87	19.59	19.46	20.19	20.84
	4H	19.90	20.55	20.51	21.16	21.85	19.77	20.42	20.39	21.03	21.72
	6H	20.51	21.07	21.15	21.71	22.42	20.54	21.10	21.18	21.74	22.44
	8H	20.71	21.23	21.35	21.86	22.58	20.81	21.33	21.45	21.97	22.68
	12H	20.81	21.27	21.47	21.94	22.65	20.98	21.44	21.64	22.10	22.82
8H	4H	20.15	20.67	20.79	21.30	22.02	20.05	20.57	20.69	21.20	21.92
	6H	20.89	21.31	21.56	21.99	22.71	20.95	21.38	21.63	22.06	22.78
	8H	21.16	21.54	21.85	22.22	22.96	21.31	21.69	22.00	22.37	23.11
	12H	21.33	21.66	22.01	22.33	23.13	21.55	21.88	22.24	22.55	23.36
12H	4H	20.15	20.62	20.81	21.28	22.00	20.06	20.52	20.72	21.18	21.90
	6H	20.93	21.31	21.62	22.00	22.73	21.00	21.38	21.69	22.06	22.80
	8H	21.25	21.58	21.93	22.25	23.05	21.40	21.73	22.09	22.40	23.21

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



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

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

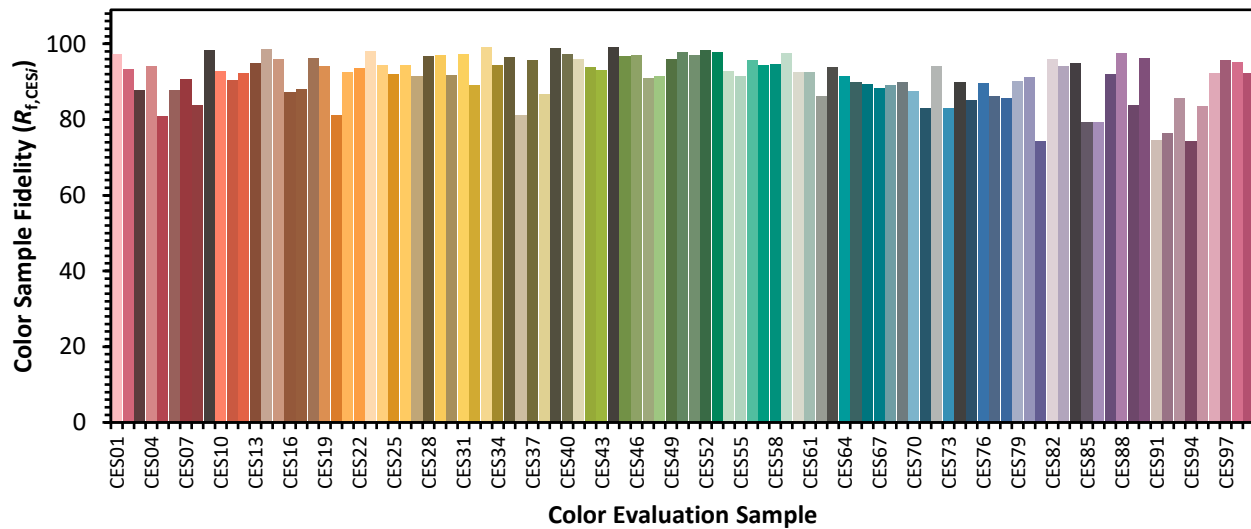


Color Vector Graphics



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)