

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:

Luminaire Tested: EHBR1-54-UNV-TA-L950-UPL18

Issue Date: 3/20/2026

**Test Information**

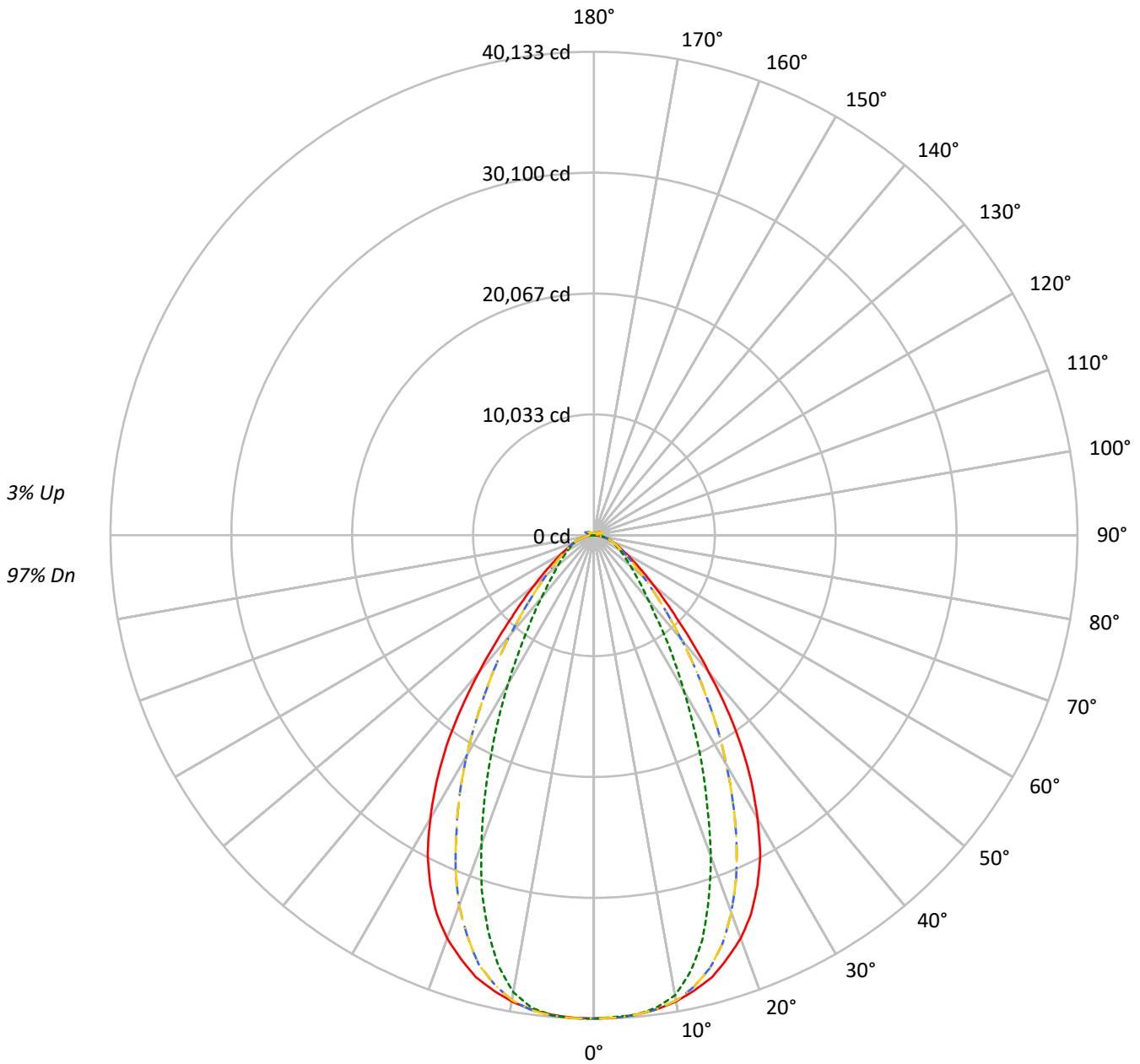
Test Method: LM-79-2019  
Report Number:  
REPORT IS A COMBINATION OF REPORTS P1431862 AND P1431635  
Test Lab: INNOVATION CENTER  
Issue Date: 3/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: EHBR1-54-UNV-TA-L950-UPL18  
Description: Elevate Round Highbay at, 54000 lumens, 5000K 90CRI LEDs with TA lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51550.9 lumens  
Efficiency: N/A  
Efficacy: 167.4 lumens/watt  
Spacing Criteria (0/90/45): 1.07 / 0.8 / 0.93  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 307.9  
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:  
CATALOG NUMBER: EHBR1-54-UNV-TA-L950-UPL18

### 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	90	89	89	89	89	87
2	104	97	92	88	101	95	91	87	91	88	84	88	85	82	84	82	80	80	80	80	78
3	97	89	83	78	94	87	81	77	84	79	75	81	77	73	78	75	72	72	72	72	70
4	91	81	74	69	88	80	74	69	77	72	67	75	70	66	72	68	65	65	65	65	63
5	85	75	68	62	83	74	67	62	71	66	61	69	64	60	67	63	59	59	59	59	58
6	80	69	62	57	78	68	61	56	66	60	56	64	59	55	63	58	54	54	54	54	53
7	75	64	57	52	73	63	57	52	62	56	51	60	55	51	59	54	50	50	50	50	49
8	71	60	53	48	69	59	52	48	58	52	47	56	51	47	55	50	46	46	46	46	45
9	67	56	49	44	66	55	49	44	54	48	44	53	47	44	52	47	43	43	43	43	42
10	63	52	46	41	62	52	45	41	51	45	41	50	44	41	49	44	40	40	40	40	39

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

	0°	90°	180°	270°
0°	188389	188389	188389	188389
5°	187123	187143	187123	187340
10°	184937	182517	184937	181323
15°	180907	165696	180907	161891
20°	173248	138078	173248	132702
25°	160718	106784	160718	101251
30°	141179	77836	141179	73879
35°	116028	56107	116028	52444
40°	85507	40366	85507	39120
45°	59720	31807	59720	30707
50°	43224	26390	43224	25990
55°	32734	23048	32734	22737
60°	26084	20786	26084	20932
65°	21919	19440	21919	19625
70°	19486	18462	19486	18644
75°	17222	17222	17222	17390
80°	14118	15557	14118	15557
85°	9046	10780	9046	11100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 62571 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3788.3	7.3
10°-20°	10181.7	19.8
20°-30°	12380.9	24.0
30°-40°	10085.1	19.6
40°-50°	6055.1	11.7
50°-60°	3484.8	6.8
60°-70°	2180.9	4.2
70°-80°	1284.4	2.5
80°-90°	378.7	0.7
90°-100°	45.3	0.1
100°-110°	299.0	0.6
110°-120°	553.0	1.1
120°-130°	328.5	0.6
130°-140°	199.9	0.4
140°-150°	140.3	0.3
150°-160°	92.8	0.2
160°-170°	54.0	0.1
170°-180°	18.2	0.0
0°-30°	26350.9	51.1
0°-40°	36436.0	70.7
0°-60°	45975.9	89.2
0°-90°	49819.9	96.6
90°-120°	897.3	1.7
90°-150°	1566.1	3.0
90°-180°	1731.0	3.4
0°-180°	51550.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	40116	40116	40116	40116	40116	
5°	39954	39958	39954	40000	39954	3793
15°	37953	34762	37953	33964	37953	10641
25°	32095	21325	32095	20220	32095	14631
35°	21295	10298	21295	9625	21295	13149
45°	9662	5146	9662	4968	9662	7698
55°	4424	3115	4424	3073	4424	4068
65°	2288	2029	2288	2048	2288	2312
75°	1213	1213	1213	1225	1213	1281
85°	311	370	311	382	311	341
90°	12	14	12	13	12	19
95°	24	23	24	22	24	26
105°	137	106	137	69	137	185
115°	588	480	588	503	588	536
125°	376	347	376	395	376	346
135°	240	256	240	276	240	190
145°	219	214	219	230	219	137
155°	196	194	196	209	196	92
165°	188	189	188	196	188	53
175°	189	193	189	197	189	18
180°	192	192	192	192	192	



TEST NUMBER:  
 CATALOG NUMBER: EHBR1-54-UNV-TA-L950-UPL18

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	40116.0	40116.0	40116.0	40116.0	40116.0	40116.0	40116.0	40116.0	40116.0	40116.0	40116.0
2.5°	40096.7	40087.4	40079.0	40063.9	40027.7	40063.9	40079.0	40087.4	40096.7	40121.8	40132.7
5°	39953.8	39989.9	39952.1	39960.5	39957.9	39960.5	39952.1	39989.9	39953.8	39979.0	40024.4
7.5°	39704.2	39697.5	39684.9	39635.4	39551.4	39635.4	39684.9	39697.5	39704.2	39735.3	39767.3
10°	39292.5	39319.5	39230.4	38918.6	38778.3	38918.6	39230.4	39319.5	39292.5	39343.0	39181.7
12.5°	38681.7	38747.2	38386.8	37576.8	37083.6	37576.8	38386.8	38747.2	38681.7	38726.2	38176.7
15°	37953.3	37898.7	37187.8	35485.6	34762.1	35485.6	37187.8	37898.7	37953.3	37898.7	36889.5
17.5°	36818.9	36897.9	35518.3	33012.0	31676.0	33012.0	35518.3	36897.9	36818.9	36845.0	34929.3
20°	35607.4	35631.7	33330.4	29803.2	28379.0	29803.2	33330.4	35631.7	35607.4	35461.2	32702.8
22.5°	34065.6	34074.8	30823.2	26486.9	24650.1	26486.9	30823.2	34074.8	34065.6	33821.9	29991.4
25°	32095.3	32167.5	28001.7	23126.0	21324.6	23126.0	28001.7	32167.5	32095.3	31818.0	26979.2
27.5°	29883.0	29932.6	24989.6	19759.3	17886.5	19759.3	24989.6	29932.6	29883.0	29580.5	24099.8
30°	27155.7	27473.3	21964.8	16684.1	14971.7	16684.1	21964.8	27473.3	27155.7	27121.2	21131.3
32.5°	24339.3	24901.4	19113.2	13942.5	12474.7	13942.5	19113.2	24901.4	24339.3	24499.7	18172.9
35°	21295.2	21927.0	16153.9	11590.7	10297.6	11590.7	16153.9	21927.0	21295.2	21502.8	15458.2
37.5°	18067.9	19034.2	13645.9	9601.1	8357.6	9601.1	13645.9	19034.2	18067.9	18459.5	13070.3
40°	14820.5	15859.9	11267.3	7982.9	6996.4	7982.9	11267.3	15859.9	14820.5	15458.2	10791.7
42.5°	12031.8	12829.2	9299.5	6672.2	6028.6	6672.2	9299.5	12829.2	12031.8	12483.9	8894.5
45°	9662.4	10123.7	7694.6	5659.7	5146.3	5659.7	7694.6	10123.7	9662.4	10081.7	7361.1
47.5°	7888.7	8175.3	6334.3	4890.9	4495.1	4890.9	6334.3	8175.3	7888.7	8021.5	6147.9
50°	6441.9	6598.2	5325.3	4238.9	3933.0	4238.9	5325.3	6598.2	6441.9	6523.4	5149.7
52.5°	5345.5	5422.8	4466.5	3720.5	3496.2	3720.5	4466.5	5422.8	5345.5	5358.0	4388.4
55°	4423.7	4442.2	3812.9	3270.9	3114.7	3270.9	3812.9	4442.2	4423.7	4427.0	3749.1
57.5°	3704.5	3731.4	3276.8	2910.5	2781.1	2910.5	3276.8	3731.4	3704.5	3710.4	3246.6
60°	3135.7	3153.3	2831.5	2585.4	2498.8	2585.4	2831.5	3153.3	3135.7	3128.1	2813.9
62.5°	2669.3	2703.0	2474.4	2303.8	2248.4	2303.8	2474.4	2703.0	2669.3	2677.0	2473.6
65°	2287.9	2309.8	2168.6	2048.4	2029.1	2048.4	2168.6	2309.8	2287.9	2306.3	2175.3
67.5°	1974.5	1999.7	1904.8	1834.2	1814.8	1834.2	1904.8	1999.7	1974.5	1989.6	1906.4
70°	1709.8	1709.8	1658.6	1619.1	1619.9	1619.1	1658.6	1709.8	1709.8	1712.4	1667.9
72.5°	1450.2	1459.5	1425.0	1413.3	1418.3	1413.3	1425.0	1459.5	1450.2	1482.1	1435.1
75°	1213.2	1223.4	1205.7	1199.0	1213.2	1199.0	1205.7	1223.4	1213.2	1230.1	1209.1
77.5°	968.8	987.3	984.8	993.1	1020.0	993.1	984.8	987.3	968.8	994.0	999.0
80°	742.7	758.7	759.6	780.5	818.4	780.5	759.6	758.7	742.7	758.7	771.4
82.5°	522.6	532.7	539.4	574.7	607.5	574.7	539.4	532.7	522.6	531.8	548.6
85°	310.9	302.5	314.2	336.1	370.5	336.1	314.2	302.5	310.9	310.9	319.2
87.5°	99.1	96.6	95.8	116.8	133.6	116.8	95.8	96.6	99.1	102.5	106.7
90°	12.4	21.9	34.3	20.0	14.0	20.0	34.3	21.9	12.4	20.9	36.1
92.5°	16.2	28.5	55.2	30.5	19.0	30.5	55.2	28.5	16.2	28.5	51.4
95°	23.8	38.1	77.1	35.2	22.6	35.2	77.1	38.1	23.8	35.2	65.7
97.5°	37.2	46.6	88.5	39.0	28.3	39.0	88.5	46.6	37.2	43.8	74.2
100°	49.5	57.1	138.1	45.7	36.9	45.7	138.1	57.1	49.5	49.5	136.2
102.5°	75.3	107.6	293.3	97.1	61.7	97.1	293.3	107.6	75.3	97.1	316.2
105°	137.1	225.7	522.8	204.8	105.5	204.8	522.8	225.7	137.1	222.8	557.1
107.5°	260.0	400.0	689.4	366.6	181.6	366.6	689.4	400.0	260.0	416.2	718.0
110°	416.2	549.5	722.8	486.6	337.8	486.6	722.8	549.5	416.2	581.8	783.7



TEST NUMBER:

CATALOG NUMBER: EHBR1-54-UNV-TA-L950-UPL18

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	541.9	606.6	692.3	522.8	455.9	522.8	692.3	606.6	541.9	648.5	765.6
115°	588.5	592.3	618.0	502.8	479.7	502.8	618.0	592.3	588.5	639.0	683.7
117.5°	568.5	532.3	524.7	459.0	464.4	459.0	524.7	532.3	568.5	584.7	590.5
120°	513.2	464.7	438.1	408.5	429.3	408.5	438.1	464.7	513.2	506.6	497.1
122.5°	443.7	395.2	375.2	362.7	387.3	362.7	375.2	395.2	443.7	429.4	420.0
125°	376.1	335.2	330.4	322.7	347.2	322.7	330.4	335.2	376.1	361.9	366.5
127.5°	319.0	293.3	299.0	295.1	312.0	295.1	299.0	293.3	319.0	312.4	327.4
130°	278.9	265.7	279.8	274.0	288.2	274.0	279.8	265.7	278.9	280.8	300.7
132.5°	254.0	250.2	267.2	259.6	269.1	259.6	267.2	250.2	254.0	262.5	280.6
135°	239.5	239.6	255.7	247.1	255.6	247.1	255.7	239.6	239.5	251.0	267.1
137.5°	230.8	233.7	245.1	236.6	243.2	236.6	245.1	233.7	230.8	242.2	254.7
140°	226.0	227.8	236.5	226.9	233.5	226.9	236.5	227.8	226.0	237.4	243.1
142.5°	221.0	223.0	228.7	218.1	221.9	218.1	228.7	223.0	221.0	232.4	235.3
145°	219.1	220.0	222.9	211.3	214.2	211.3	222.9	220.0	219.1	227.5	225.6
147.5°	215.1	215.1	216.1	206.4	209.1	206.4	216.1	215.1	215.1	220.9	218.8
150°	210.3	209.3	210.3	200.6	203.3	200.6	210.3	209.3	210.3	214.1	211.1
152.5°	202.6	201.7	203.5	194.7	197.5	194.7	203.5	201.7	202.6	206.4	204.4
155°	196.0	196.0	197.7	190.8	193.5	190.8	197.7	196.0	196.0	198.7	198.6
157.5°	193.0	193.0	194.6	189.6	192.2	189.6	194.6	193.0	193.0	194.7	195.5
160°	189.9	190.8	192.5	188.4	191.1	188.4	192.5	190.8	189.9	192.6	193.3
162.5°	188.8	189.6	191.4	187.3	189.9	187.3	191.4	189.6	188.8	189.6	190.4
165°	187.6	188.6	190.3	187.1	188.8	187.1	190.3	188.6	187.6	188.6	189.2
167.5°	187.5	188.4	190.1	187.9	189.6	187.9	190.1	188.4	187.5	186.6	189.1
170°	185.6	187.4	190.0	188.7	189.5	188.7	190.0	187.4	185.6	186.5	188.0
172.5°	187.3	189.1	191.7	190.4	191.2	190.4	191.7	189.1	187.3	188.1	188.7
175°	189.0	189.8	192.3	191.1	192.8	191.1	192.3	189.8	189.0	188.8	190.4
177.5°	188.8	190.7	193.2	192.9	194.6	192.9	193.2	190.7	188.8	189.6	192.1
180°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	40116.0	40116.0	40116.0	40116.0	40116.0	40116.0
2.5°	40115.1	40130.2	40115.1	40132.7	40121.8	40096.7
5°	40006.7	40000.0	40006.7	40024.4	39979.0	39953.8
7.5°	39586.6	39559.7	39586.6	39767.3	39735.3	39704.2
10°	38709.4	38524.6	38709.4	39181.7	39343.0	39292.5
12.5°	37180.3	36607.2	37180.3	38176.7	38726.2	38681.7
15°	34947.8	33963.9	34947.8	36889.5	37898.7	37953.3
17.5°	32059.2	30933.3	32059.2	34929.3	36845.0	36818.9
20°	28917.6	27274.1	28917.6	32702.8	35461.2	35607.4
22.5°	25487.0	23717.5	25487.0	29991.4	33821.9	34065.6
25°	22064.8	20219.8	22064.8	26979.2	31818.0	32095.3
27.5°	18866.1	17110.1	18866.1	24099.8	29580.5	29883.0
30°	15904.4	14210.5	15904.4	21131.3	27121.2	27155.7
32.5°	13427.5	11748.6	13427.5	18172.9	24499.7	24339.3
35°	11017.7	9625.4	11017.7	15458.2	21502.8	21295.2
37.5°	9201.2	8085.3	9201.2	13070.3	18459.5	18067.9
40°	7674.5	6780.5	7674.5	10791.7	15458.2	14820.5
42.5°	6415.9	5747.0	6415.9	8894.5	12483.9	12031.8
45°	5470.6	4968.2	5470.6	7361.1	10081.7	9662.4
47.5°	4774.1	4365.7	4774.1	6147.9	8021.5	7888.7
50°	4154.0	3873.4	4154.0	5149.7	6523.4	6441.9
52.5°	3654.1	3450.7	3654.1	4388.4	5358.0	5345.5
55°	3238.1	3072.7	3238.1	3749.1	4427.0	4423.7
57.5°	2876.1	2769.3	2876.1	3246.6	3710.4	3704.5
60°	2553.4	2516.4	2553.4	2813.9	3128.1	3135.7
62.5°	2306.3	2251.8	2306.3	2473.6	2677.0	2669.3
65°	2061.1	2048.4	2061.1	2175.3	2306.3	2287.9
67.5°	1839.2	1828.3	1839.2	1906.4	1989.6	1974.5
70°	1627.5	1635.9	1627.5	1667.9	1712.4	1709.8
72.5°	1422.5	1424.1	1422.5	1435.1	1482.1	1450.2
75°	1225.0	1225.0	1225.0	1209.1	1230.1	1213.2
77.5°	1009.9	1035.1	1009.9	999.0	994.0	968.8
80°	794.0	818.4	794.0	771.4	758.7	742.7
82.5°	575.6	615.1	575.6	548.6	531.8	522.6
85°	357.1	381.5	357.1	319.2	310.9	310.9
87.5°	134.4	147.1	134.4	106.7	102.5	99.1
90°	19.0	13.2	19.0	36.1	20.9	12.4
92.5°	25.7	17.9	25.7	51.4	28.5	16.2
95°	28.5	21.7	28.5	65.7	35.2	23.8
97.5°	30.5	26.6	30.5	74.2	43.8	37.2
100°	35.2	31.2	35.2	136.2	49.5	49.5
102.5°	71.4	37.8	71.4	316.2	97.1	75.3
105°	186.7	69.3	186.7	557.1	222.8	137.1
107.5°	369.5	161.7	369.5	718.0	416.2	260.0
110°	506.6	327.3	506.6	783.7	581.8	416.2



TEST NUMBER:

CATALOG NUMBER: EHBR1-54-UNV-TA-L950-UPL18

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	561.8	453.0	561.8	765.6	648.5	541.9
115°	560.0	502.6	560.0	683.7	639.0	588.5
117.5°	525.7	505.4	525.7	590.5	584.7	568.5
120°	476.0	476.8	476.0	497.1	506.6	513.2
122.5°	424.6	438.6	424.6	420.0	429.4	443.7
125°	380.8	394.9	380.8	366.5	361.9	376.1
127.5°	344.5	355.8	344.5	327.4	312.4	319.0
130°	314.0	321.5	314.0	300.7	280.8	278.9
132.5°	292.9	296.7	292.9	280.6	262.5	254.0
135°	274.7	276.5	274.7	267.1	251.0	239.5
137.5°	260.3	259.3	260.3	254.7	242.2	230.8
140°	250.6	248.7	250.6	243.1	237.4	226.0
142.5°	240.0	239.0	240.0	235.3	232.4	221.0
145°	233.1	230.2	233.1	225.6	227.5	219.1
147.5°	225.4	223.5	225.4	218.8	220.9	215.1
150°	219.5	219.4	219.5	211.1	214.1	210.3
152.5°	212.9	213.6	212.9	204.4	206.4	202.6
155°	207.8	208.7	207.8	198.6	198.7	196.0
157.5°	203.8	204.7	203.8	195.5	194.7	193.0
160°	200.7	201.5	200.7	193.3	192.6	189.9
162.5°	198.6	199.4	198.6	190.4	189.6	188.8
165°	194.6	196.4	194.6	189.2	188.6	187.6
167.5°	193.6	195.4	193.6	189.1	186.6	187.5
170°	192.5	194.3	192.5	188.0	186.5	185.6
172.5°	192.3	195.0	192.3	188.7	188.1	187.3
175°	193.0	196.6	193.0	190.4	188.8	189.0
177.5°	194.8	199.3	194.8	192.1	189.6	188.8
180°	192.1	192.1	192.1	192.1	192.1	192.1



TEST NUMBER: CATALOG  
 CATALOG NUMBER: EHBR1-54-UNV-TA-L950-UPL18

**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	21.19	22.40	21.62	22.79	23.19	19.46	20.67	19.88	21.05	21.46
	3H	22.35	23.43	22.79	23.83	24.28	21.06	22.14	21.50	22.54	22.99
	4H	22.81	23.81	23.27	24.23	24.70	21.71	22.72	22.18	23.14	23.61
	6H	23.13	24.05	23.60	24.49	24.97	22.23	23.15	22.70	23.59	24.07
	8H	23.21	24.09	23.70	24.54	25.03	22.40	23.27	22.89	23.73	24.22
	12H	23.25	24.08	23.74	24.53	25.04	22.49	23.32	22.98	23.77	24.29
4H	2H	21.45	22.45	21.91	22.87	23.34	20.01	21.01	20.47	21.43	21.90
	3H	22.85	23.67	23.32	24.15	24.63	21.82	22.64	22.29	23.11	23.60
	4H	23.43	24.18	23.93	24.66	25.18	22.58	23.32	23.08	23.81	24.33
	6H	23.88	24.52	24.40	25.03	25.57	23.22	23.85	23.74	24.36	24.91
	8H	24.00	24.60	24.53	25.11	25.66	23.42	24.02	23.95	24.53	25.08
	12H	24.06	24.59	24.61	25.13	25.69	23.55	24.08	24.09	24.62	25.17
8H	4H	23.60	24.19	24.12	24.70	25.25	22.83	23.42	23.35	23.93	24.48
	6H	24.14	24.63	24.70	25.19	25.75	23.57	24.06	24.13	24.62	25.17
	8H	24.32	24.76	24.90	25.33	25.90	23.85	24.28	24.43	24.86	25.43
	12H	24.44	24.82	25.01	25.37	26.02	24.04	24.42	24.61	24.97	25.62
12H	4H	23.59	24.12	24.14	24.66	25.22	22.83	23.36	23.38	23.90	24.46
	6H	24.16	24.59	24.74	25.17	25.74	23.60	24.03	24.18	24.61	25.18
	8H	24.38	24.76	24.95	25.32	25.96	23.92	24.30	24.49	24.86	25.50

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

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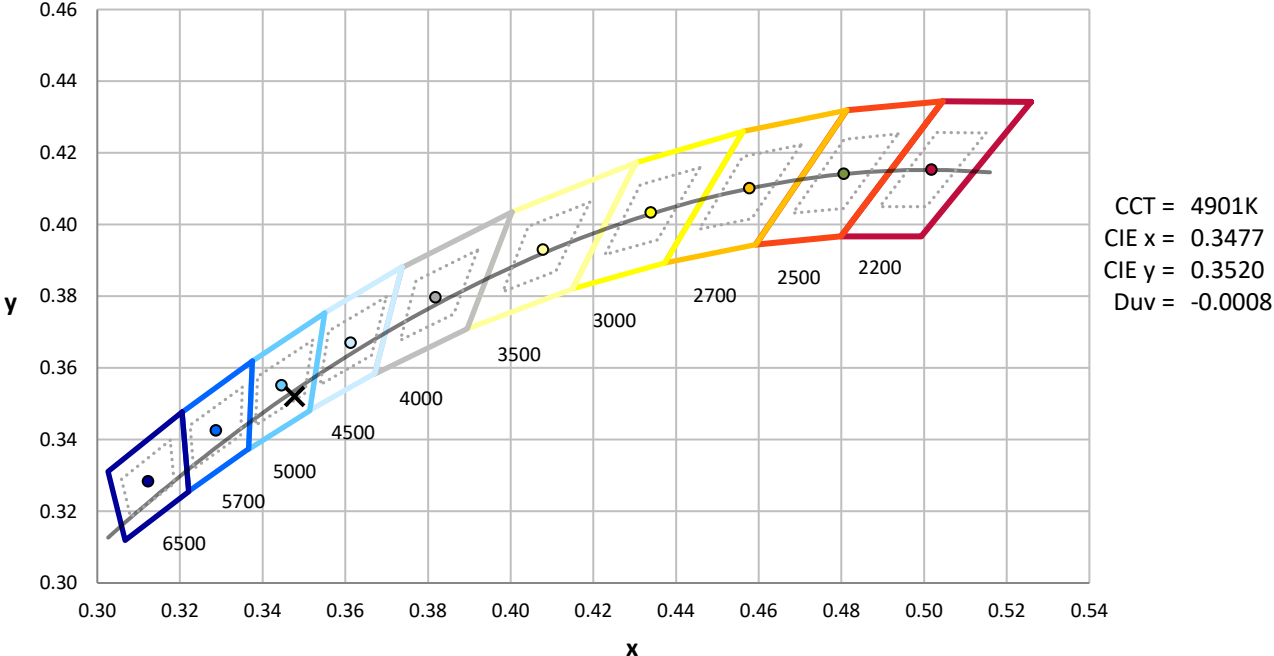
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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



CCT = 4901K  
 CIE x = 0.3477  
 CIE y = 0.3520  
 Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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 <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	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 <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	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)