

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: P1431867

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

Issue Date: 3/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1431867  
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: EHBR1-54-UNV-TA-L950  
Description: Elevate Round Highbay at, 54000 lumens, 5000K 90CRI LEDs with TA lens  
Light Source: -  
Ballast/Driver: -

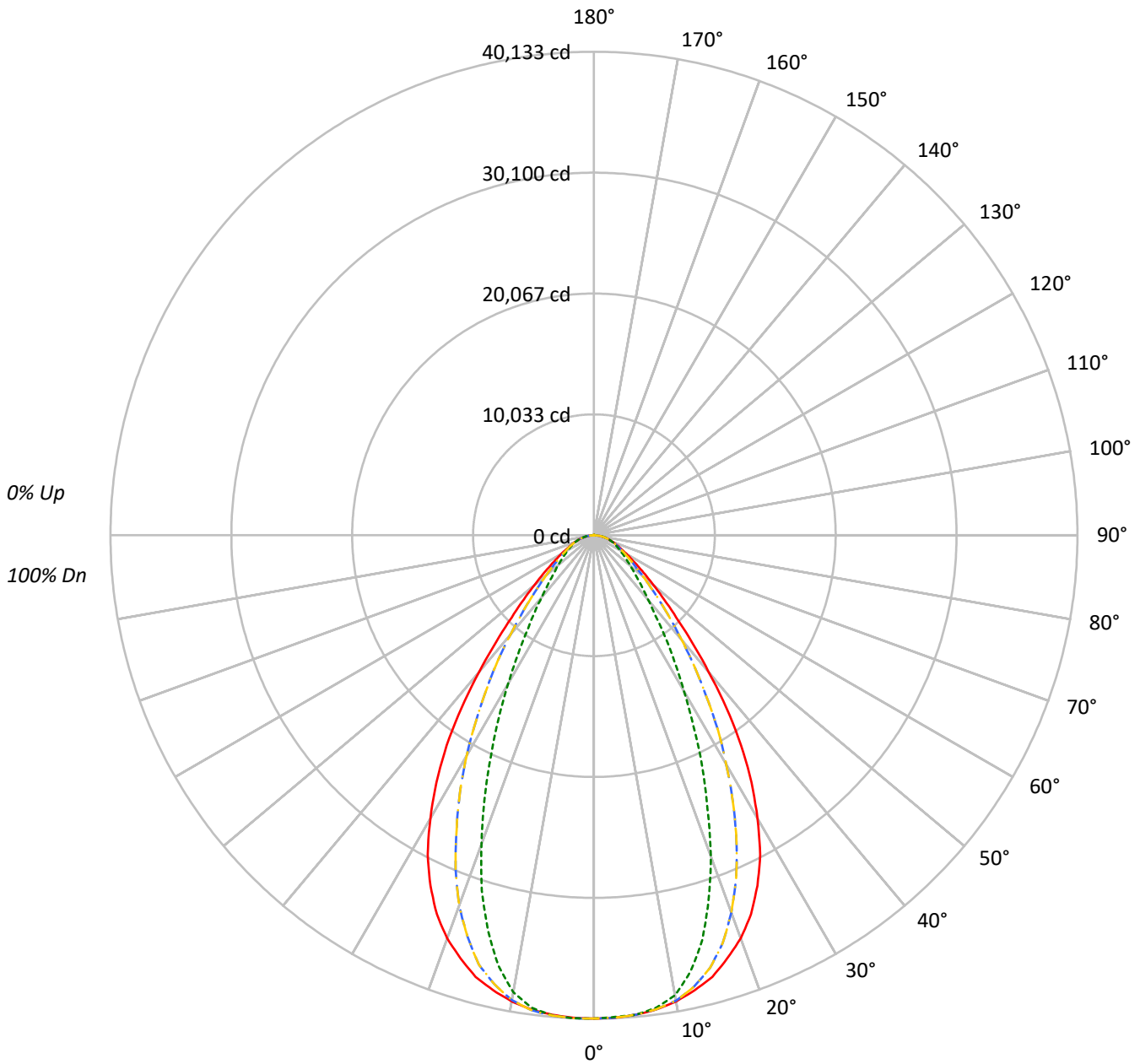
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49836.7 lumens  
Efficiency: N/A  
Efficacy: 168.4 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): 296  
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: P1431867  
CATALOG NUMBER: EHBR1-54-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°	188389	188389	188389	188389
5°	188344	188363	188344	188561
10°	187368	184916	187368	183706
15°	184520	169005	184520	165124
20°	177947	141823	177947	136302
25°	166304	110495	166304	104770
30°	147254	81185	147254	77058
35°	122083	59035	122083	55181
40°	90854	42890	90854	41567
45°	64171	34178	64171	32995
50°	47063	28734	47063	28298
55°	36219	25501	36219	25157
60°	29451	23469	29451	23635
65°	25423	22547	25423	22762
70°	23476	22242	23476	22462
75°	22013	22013	22013	22227
80°	20085	22133	20085	22133
85°	16752	19963	16752	20556

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 67234 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3788.3	7.6
10°-20°	10181.7	20.4
20°-30°	12380.9	24.8
30°-40°	10085.1	20.2
40°-50°	6055.1	12.1
50°-60°	3484.8	7.0
60°-70°	2180.9	4.4
70°-80°	1284.4	2.6
80°-90°	375.6	0.8
90°-100°	0.2	0.0
100°-110°	0.2	0.0
110°-120°	0.2	0.0
120°-130°	0.6	0.0
130°-140°	2.5	0.0
140°-150°	4.6	0.0
150°-160°	5.1	0.0
160°-170°	4.5	0.0
170°-180°	1.9	0.0
0°-30°	26350.9	52.9
0°-40°	36436.0	73.1
0°-60°	45975.9	92.3
0°-90°	49816.8	100.0
90°-120°	0.6	0.0
90°-150°	8.3	0.0
90°-180°	20.0	0.0
0°-180°	49836.7	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°	0	2	0	1	0	14
95°	0	2	0	1	0	0
105°	0	2	0	2	0	0
115°	0	2	0	2	0	0
125°	0	2	0	2	0	0
135°	3	4	3	4	3	2
145°	7	8	7	8	7	4
155°	8	13	8	14	8	4
165°	14	19	14	19	14	4
175°	18	25	18	25	18	2
180°	23	23	23	23	23	



TEST NUMBER: P1431867  
 CATALOG NUMBER: EHBR1-54-UNV-TA-L950

**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°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	1.7	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	1.7	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.8	2.5	0.8	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.8	2.5	0.8	0.0	0.0	0.0	0.0	0.8
127.5°	0.0	0.0	0.0	0.8	2.5	0.8	0.0	0.0	0.0	0.0	0.8
130°	0.8	0.0	0.8	1.7	2.5	1.7	0.8	0.0	0.8	0.8	1.7
132.5°	1.7	1.7	2.5	2.5	3.3	2.5	2.5	1.7	1.7	2.5	2.5
135°	3.3	2.5	3.3	3.3	4.2	3.3	3.3	2.5	3.3	3.3	3.3
137.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
140°	5.0	5.0	5.0	5.0	5.9	5.0	5.0	5.0	5.0	5.0	5.0
142.5°	5.9	5.9	5.9	6.7	6.7	6.7	5.9	5.9	5.9	6.7	6.7
145°	6.7	6.7	6.7	7.5	7.5	7.5	6.7	6.7	6.7	7.5	7.5
147.5°	7.5	7.5	7.5	9.2	10.1	9.2	7.5	7.5	7.5	7.5	8.4
150°	8.4	8.4	8.4	10.1	11.0	10.1	8.4	8.4	8.4	8.4	9.2
152.5°	8.4	8.4	9.2	11.0	11.8	11.0	9.2	8.4	8.4	8.4	10.1
155°	8.4	8.4	10.1	11.8	12.6	11.8	10.1	8.4	8.4	9.2	11.0
157.5°	10.1	10.1	11.8	13.5	15.1	13.5	11.8	10.1	10.1	11.0	12.6
160°	11.8	11.8	13.5	15.1	16.8	15.1	13.5	11.8	11.8	12.6	14.3
162.5°	12.6	13.5	14.3	16.8	18.5	16.8	14.3	13.5	12.6	13.5	15.1
165°	14.3	14.3	16.0	17.7	19.3	17.7	16.0	14.3	14.3	14.3	16.8
167.5°	15.1	15.1	16.8	19.3	20.2	19.3	16.8	15.1	15.1	15.1	17.7
170°	15.1	16.0	17.7	20.2	21.0	20.2	17.7	16.0	15.1	16.0	18.5
172.5°	16.8	17.7	19.3	21.8	22.7	21.8	19.3	17.7	16.8	17.7	20.2
175°	18.5	19.3	21.8	23.5	25.2	23.5	21.8	19.3	18.5	19.3	21.8
177.5°	19.3	20.2	22.7	24.3	26.0	24.3	22.7	20.2	19.3	20.2	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7



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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°	0.0	0.8	0.0	0.0	0.0	0.0
92.5°	0.0	0.8	0.0	0.0	0.0	0.0
95°	0.0	0.8	0.0	0.0	0.0	0.0
97.5°	0.0	0.8	0.0	0.0	0.0	0.0
100°	0.0	1.7	0.0	0.0	0.0	0.0
102.5°	0.0	1.7	0.0	0.0	0.0	0.0
105°	0.0	1.7	0.0	0.0	0.0	0.0
107.5°	0.0	1.7	0.0	0.0	0.0	0.0
110°	0.0	1.7	0.0	0.0	0.0	0.0



TEST NUMBER: P1431867  
 CATALOG NUMBER: EHBR1-54-UNV-TA-L950

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	1.7	0.0	0.0	0.0	0.0
115°	0.0	1.7	0.0	0.0	0.0	0.0
117.5°	0.0	1.7	0.0	0.0	0.0	0.0
120°	0.8	1.7	0.8	0.0	0.0	0.0
122.5°	0.8	2.5	0.8	0.0	0.0	0.0
125°	0.8	2.5	0.8	0.8	0.0	0.0
127.5°	1.7	2.5	1.7	0.8	0.0	0.0
130°	1.7	2.5	1.7	1.7	0.8	0.8
132.5°	3.3	3.3	3.3	2.5	2.5	1.7
135°	3.3	4.2	3.3	3.3	3.3	3.3
137.5°	4.2	5.0	4.2	4.2	4.2	4.2
140°	5.9	5.9	5.9	5.0	5.0	5.0
142.5°	6.7	7.5	6.7	6.7	6.7	5.9
145°	8.4	8.4	8.4	7.5	7.5	6.7
147.5°	9.2	10.1	9.2	8.4	7.5	7.5
150°	11.0	11.8	11.0	9.2	8.4	8.4
152.5°	11.0	12.6	11.0	10.1	8.4	8.4
155°	12.6	13.5	12.6	11.0	9.2	8.4
157.5°	14.3	15.1	14.3	12.6	11.0	10.1
160°	16.0	16.8	16.0	14.3	12.6	11.8
162.5°	17.7	18.5	17.7	15.1	13.5	12.6
165°	18.5	19.3	18.5	16.8	14.3	14.3
167.5°	19.3	20.2	19.3	17.7	15.1	15.1
170°	20.2	21.0	20.2	18.5	16.0	15.1
172.5°	21.8	22.7	21.8	20.2	17.7	16.8
175°	23.5	25.2	23.5	21.8	19.3	18.5
177.5°	24.3	26.0	24.3	22.7	20.2	19.3
180°	22.7	22.7	22.7	22.7	22.7	22.7



TEST NUMBER: P1431867  
 CATALOG NUMBER: EHBR1-54-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	21.94	23.20	22.30	23.52	23.83	20.20	21.47	20.57	21.78	22.10
	3H	23.17	24.30	23.55	24.63	25.00	21.90	23.02	22.28	23.35	23.72
	4H	23.68	24.73	24.09	25.08	25.47	22.62	23.67	23.02	24.02	24.41
	6H	24.07	25.03	24.49	25.41	25.80	23.23	24.19	23.64	24.56	24.96
	8H	24.19	25.11	24.63	25.50	25.91	23.45	24.36	23.88	24.76	25.16
	12H	24.26	25.14	24.70	25.52	25.95	23.60	24.47	24.03	24.85	25.29
4H	2H	22.23	23.28	22.64	23.63	24.02	20.81	21.86	21.21	22.21	22.59
	3H	23.73	24.59	24.14	24.99	25.40	22.72	23.58	23.13	23.99	24.39
	4H	24.38	25.16	24.82	25.58	26.02	23.57	24.34	24.01	24.76	25.21
	6H	24.91	25.58	25.38	26.03	26.50	24.31	24.98	24.77	25.42	25.89
	8H	25.08	25.71	25.55	26.16	26.63	24.58	25.21	25.05	25.65	26.13
	12H	25.19	25.74	25.68	26.23	26.70	24.77	25.32	25.26	25.81	26.28
8H	4H	24.59	25.22	25.06	25.66	26.14	23.87	24.49	24.34	24.94	25.41
	6H	25.25	25.76	25.76	26.26	26.74	24.74	25.25	25.25	25.75	26.23
	8H	25.50	25.95	26.02	26.47	26.96	25.10	25.56	25.63	26.08	26.57
	12H	25.68	26.08	26.20	26.57	27.15	25.38	25.78	25.90	26.28	26.85
12H	4H	24.60	25.15	25.09	25.64	26.11	23.89	24.44	24.38	24.92	25.40
	6H	25.29	25.75	25.81	26.26	26.76	24.79	25.25	25.32	25.77	26.26
	8H	25.59	25.99	26.11	26.49	27.06	25.21	25.61	25.73	26.11	26.68

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**

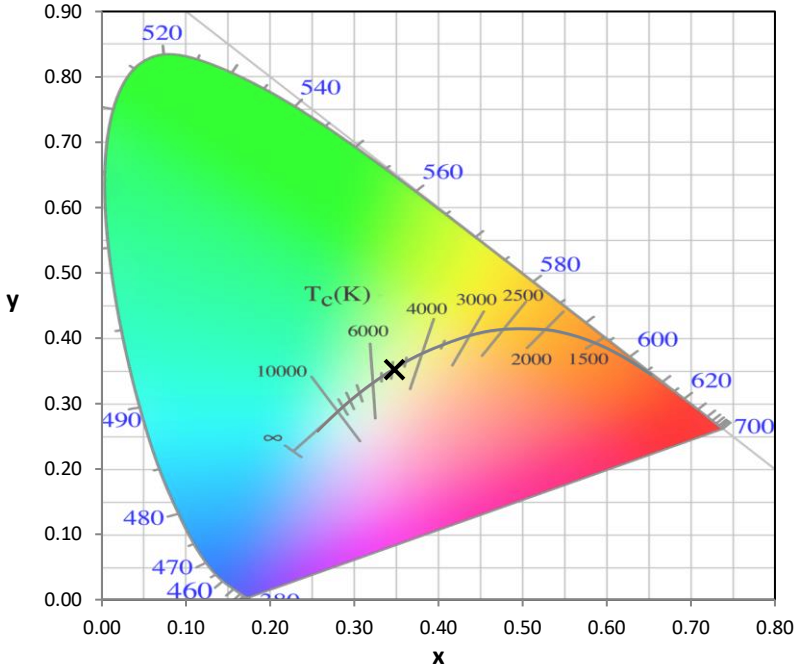
Stabilization Time: 35M  
 Operation Time: 1H 35M  
 Sphere Temperature (°C): 25.0

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**

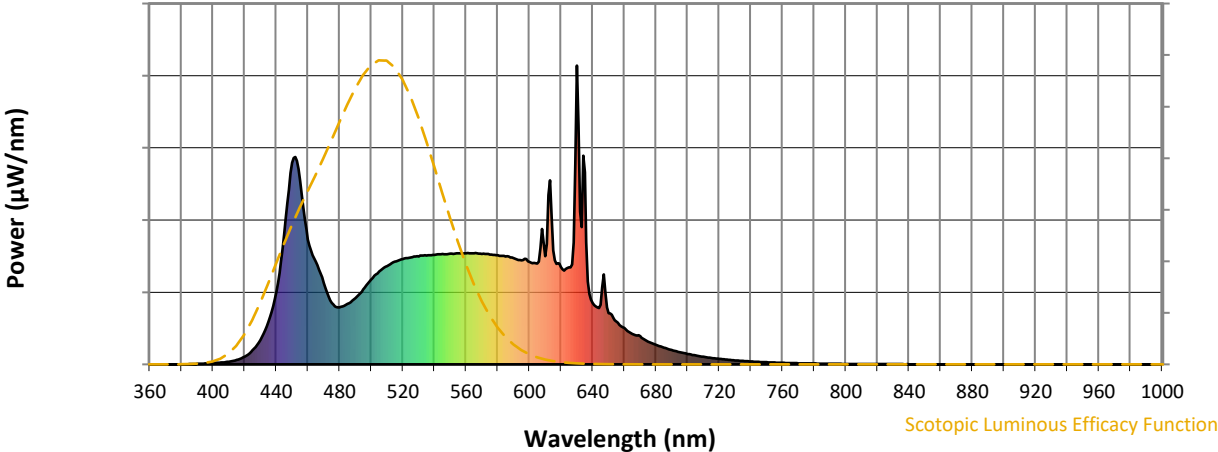


**Photopic Lumens: NR**

$\lambda$ (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**

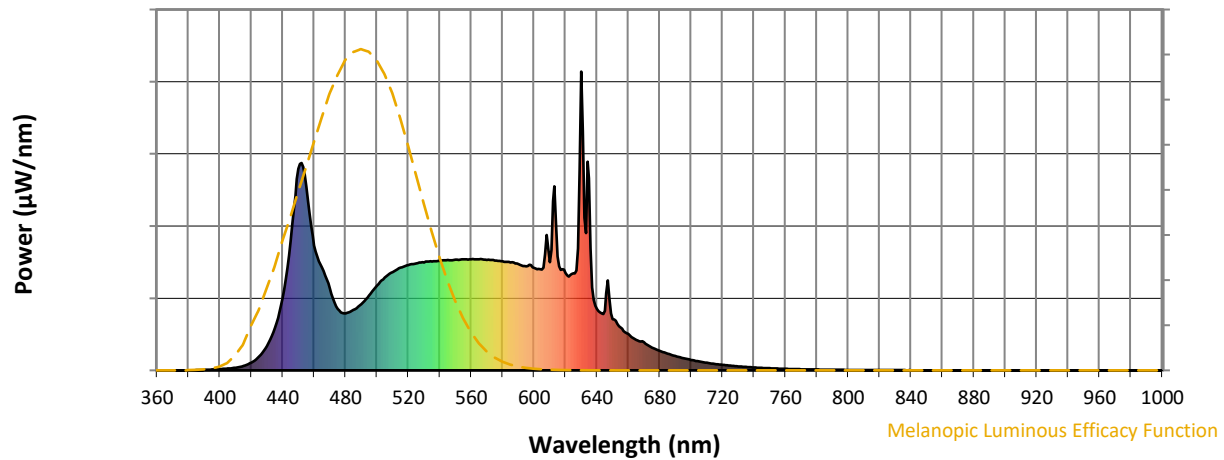


**Scotopic Lumens: NR S/P: 2.04**

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

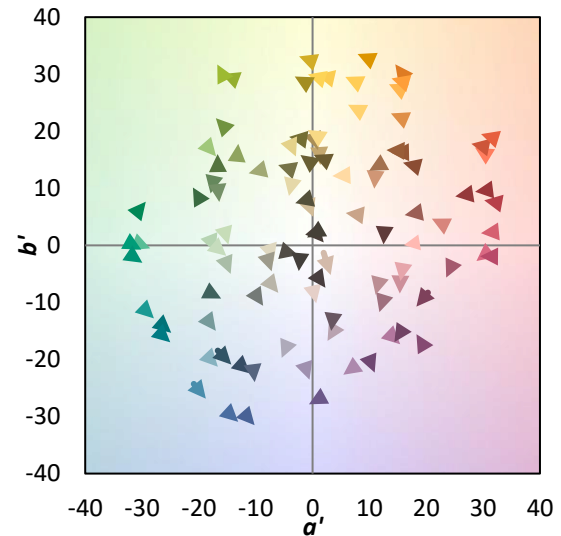
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	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)