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: P1433867

Luminaire Tested: EHBR1-42-UNV-TASM-L940-UPL12

Issue Date: 3/20/2026

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1433867
	REPORT IS A COMBINATION OF REPORTS P1431904 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-42-UNV-TASM-L940-UPL12
Description:	Elevate Round Highbay at, 42000 lumens, 4000K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	39761.8 lumens
Efficiency:	N/A
Efficacy:	171.5 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:	Direct

Input Watts (W):	231.8
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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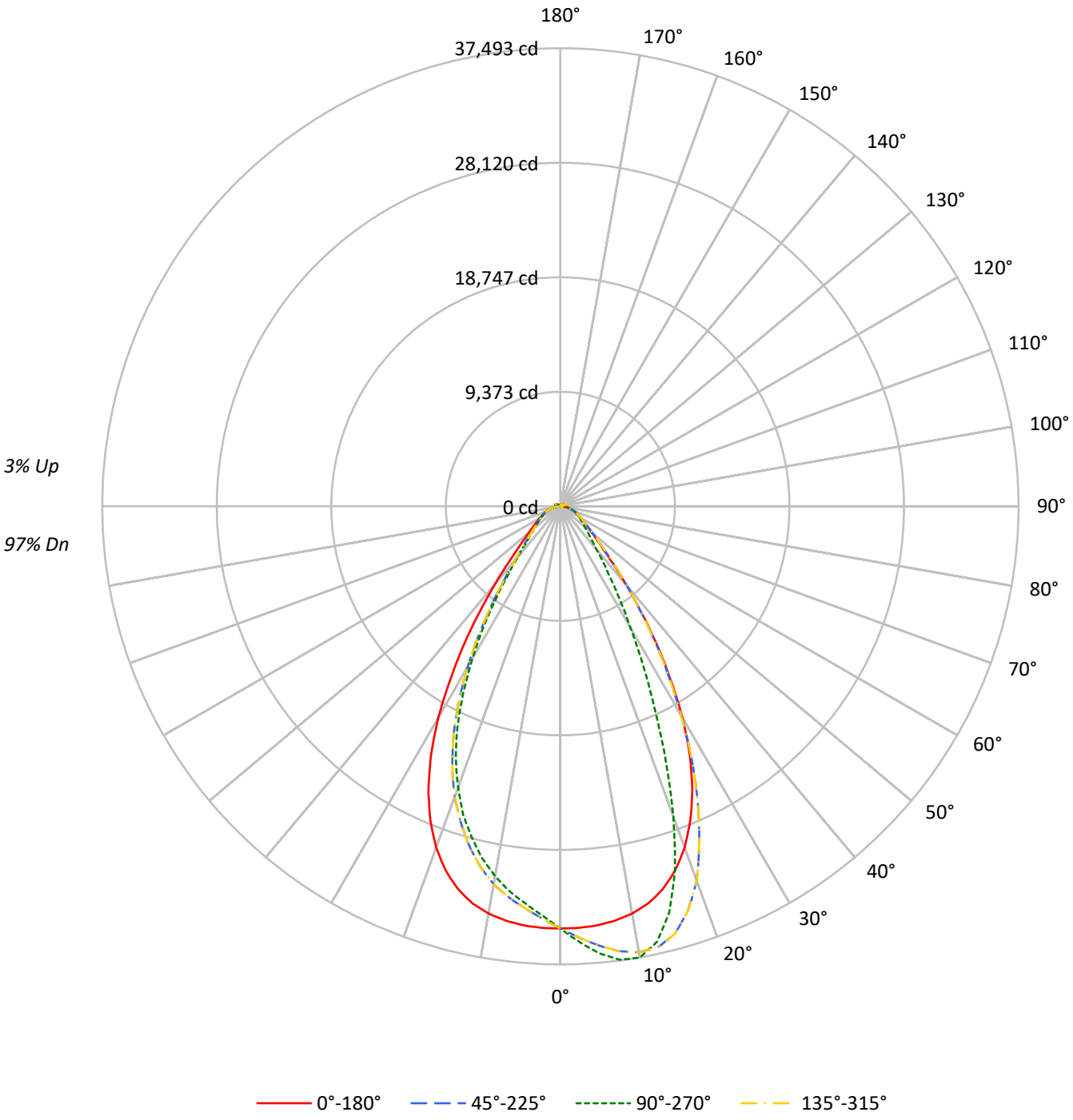
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	111	108	105	102	108	105	103	100	101	98	96	96	95	93	92	91	90	88
2	104	98	93	89	102	96	92	88	92	89	86	89	86	83	86	83	81	79
3	98	90	84	79	95	88	83	78	85	81	77	82	78	75	80	76	74	72
4	92	83	76	71	90	82	76	71	79	74	70	77	72	69	74	71	67	66
5	87	77	70	65	85	76	69	65	73	68	64	71	67	63	69	65	62	60
6	82	71	64	60	80	70	64	59	68	63	59	67	62	58	65	61	57	56
7	77	67	60	55	75	66	59	55	64	58	54	63	57	54	61	57	53	51
8	73	62	55	51	71	61	55	51	60	54	50	59	54	50	58	53	49	48
9	69	58	52	47	68	58	51	47	57	51	47	55	50	47	54	50	46	45
10	66	55	49	44	64	54	48	44	53	48	44	52	47	44	51	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	162264	162264	162264	162264
5°	161276	172051	161276	152907
10°	159293	176468	159293	144714
15°	154590	163994	154590	133676
20°	144581	131501	144581	119068
25°	127966	91112	127966	99784
30°	103903	59274	103903	74658
35°	74523	38388	74523	49701
40°	48181	26458	48181	31345
45°	30571	20495	30571	22334
50°	22703	17416	22703	18603
55°	18535	15865	18535	16421
60°	16050	15113	16050	15204
65°	14632	14575	14632	14514
70°	13868	14281	13868	14097
75°	12969	13815	12969	13401
80°	11392	13044	11392	12192
85°	7370	9313	7370	8880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 42981 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3285.4	8.3
10°-20°	8938.3	22.5
20°-30°	10482.8	26.4
30°-40°	7290.1	18.3
40°-50°	3622.8	9.1
50°-60°	2166.8	5.4
60°-70°	1525.1	3.8
70°-80°	982.4	2.5
80°-90°	314.0	0.8
90°-100°	31.5	0.1
100°-110°	198.5	0.5
110°-120°	365.5	0.9
120°-130°	218.3	0.5
130°-140°	133.5	0.3
140°-150°	93.7	0.2
150°-160°	62.7	0.2
160°-170°	37.5	0.1
170°-180°	12.8	0.0
0°-30°	22706.5	57.1
0°-40°	29996.6	75.4
0°-60°	35786.3	90.0
0°-90°	38607.9	97.1
90°-120°	595.5	1.5
90°-150°	1041.0	2.6
90°-180°	1154.0	2.9
0°-180°	39761.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	34553	34553	34553	34553	34553	
5°	34435	36736	34435	32648	34435	3268
15°	32432	34405	32432	28044	32432	9064
25°	25555	18195	25555	19927	25555	11569
35°	13678	7046	13678	9122	13678	8538
45°	4946	3316	4946	3614	4946	4047
55°	2505	2144	2505	2219	2505	2291
65°	1527	1521	1527	1515	1527	1534
75°	914	973	914	944	914	959
85°	253	320	253	305	253	282
90°	9	13	9	9	9	16
95°	17	19	17	14	17	18
105°	91	50	91	70	91	123
115°	389	335	389	316	389	354
125°	250	264	250	228	250	230
135°	160	186	160	168	160	127
145°	147	154	147	143	147	92
155°	134	140	134	131	134	62
165°	131	138	131	130	131	37
175°	135	140	135	132	135	13
180°	135	135	135	135	135	

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TEST NUMBER: P1433867
CATALOG NUMBER: EHBR1-42-UNV-TASM-L940-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	34552.9	34552.9	34552.9	34552.9	*34552.9*	34552.9	34552.9	34552.9	34552.9	34552.9	34552.9
2.5°	34532.8	34979.2	35340.7	35579.2	*35697.0*	35579.2	35340.7	34979.2	34532.8	34088.9	33783.8
5°	34434.9	35329.0	36086.5	36582.1	*36735.7*	36582.1	36086.5	35329.0	34434.9	33590.0	33029.6
7.5°	34201.0	35594.1	36719.5	37298.1	*37439.3*	37298.1	36719.5	35594.1	34201.0	33005.0	32296.8
10°	*33844.0*	*35761.2*	*37061.6*	*37476.3*	*37493.1*	*37476.3*	*37061.6*	*35761.2*	*33844.0*	*32232.6*	*31397.5*
12.5°	33274.5	35701.6	36946.9	36810.8	*36501.8*	36810.8	36946.9	35701.6	33274.5	31289.3	30235.7
15°	32432.2	35348.5	36220.6	35113.3	*34405.1*	35113.3	36220.6	35348.5	32432.2	30015.5	28793.5
17.5°	31245.3	34687.6	34704.5	32513.9	*31177.8*	32513.9	34704.5	34687.6	31245.3	28457.9	27112.2
20°	29715.5	33627.7	32616.8	28610.1	*27027.2*	28610.1	32616.8	33627.7	29715.5	26616.5	25296.1
22.5°	27797.6	32198.3	29709.6	24683.1	*22523.6*	24683.1	29709.6	32198.3	27797.6	24475.1	23100.9
25°	25554.6	30447.0	26582.2	20404.3	*18194.9*	20404.3	26582.2	30447.0	25554.6	21923.6	20681.0
27.5°	22916.3	28227.2	23251.8	16673.6	*14635.2*	16673.6	23251.8	28227.2	22916.3	19289.2	18019.9
30°	19985.7	25381.6	19786.1	13278.5	*11401.4*	13278.5	19786.1	25381.6	19985.7	16329.5	15193.0
32.5°	16704.6	22592.3	16457.8	10639.5	*9049.5*	10639.5	16457.8	22592.3	16704.6	13505.2	12317.6
35°	13677.6	19102.6	13456.6	8360.1	*7045.5*	8360.1	13456.6	19102.6	13677.6	10839.0	9672.8
37.5°	10734.1	15805.4	10727.0	6731.9	*5714.6*	6731.9	10727.0	15805.4	10734.1	8426.8	7480.2
40°	8351.0	12358.4	8404.8	5373.8	*4585.9*	5373.8	8404.8	12358.4	8351.0	6411.8	5806.0
42.5°	6327.6	9449.9	6606.2	4410.4	*3895.3*	4410.4	6606.2	9449.9	6327.6	5051.9	4598.3
45°	4946.2	6954.1	5158.7	3721.0	*3316.0*	3721.0	5158.7	6954.1	4946.2	4068.3	3763.8
47.5°	4028.1	5374.5	4181.0	3191.6	*2907.9*	3191.6	4181.0	5374.5	4028.1	3441.1	3213.1
50°	3383.5	4124.0	3471.6	2786.1	*2595.6*	2786.1	3471.6	4124.0	3383.5	2946.7	2794.5
52.5°	2906.5	3363.3	2956.5	2482.8	*2354.5*	2482.8	2956.5	3363.3	2906.5	2578.1	2483.5
55°	2504.8	2827.5	2571.0	2232.7	*2144.0*	2232.7	2571.0	2827.5	2504.8	2294.3	2224.3
57.5°	2199.7	2398.6	2232.7	2019.5	*1960.6*	2019.5	2232.7	2398.6	2199.7	2041.6	2004.0
60°	1929.5	2077.2	1970.3	1833.6	*1816.8*	1833.6	1970.3	2077.2	1929.5	1836.8	1812.2
62.5°	1721.5	1814.8	1742.3	1666.4	*1651.5*	1666.4	1742.3	1814.8	1721.5	1650.2	1654.8
65°	1527.2	1614.0	1557.0	1516.2	*1521.3*	1516.2	1557.0	1614.0	1527.2	1494.1	1501.3
67.5°	1376.8	1422.2	1397.6	1374.3	*1380.0*	1374.3	1397.6	1422.2	1376.8	1344.5	1355.5
70°	1216.8	1265.4	1240.1	1243.4	*1253.1*	1243.4	1240.1	1265.4	1216.8	1207.0	1215.5
72.5°	1063.8	1101.5	1093.0	1100.8	*1111.2*	1100.8	1093.0	1101.5	1063.8	1062.5	1063.2
75°	913.6	942.1	946.0	957.0	*973.2*	957.0	946.0	942.1	913.6	903.9	915.5
77.5°	749.6	782.0	794.3	809.2	*833.3*	809.2	794.3	782.0	749.6	756.1	762.0
80°	599.3	614.2	641.4	652.4	*686.2*	652.4	641.4	614.2	599.3	588.3	596.7
82.5°	438.6	452.2	475.6	496.3	*515.8*	496.3	475.6	452.2	438.6	433.5	434.1
85°	253.3	274.1	289.6	314.2	*320.1*	314.2	289.6	274.1	253.3	259.2	253.3
87.5°	88.8	95.2	108.8	118.6	*119.3*	118.6	108.8	95.2	88.8	90.7	82.3
90°	8.8	15.1	25.7	16.4	*13.3*	16.4	25.7	15.1	8.8	15.0	23.2
92.5°	11.3	20.0	35.8	20.8	*16.5*	20.8	35.8	20.0	11.3	19.4	37.0
95°	17.0	24.4	45.1	22.6	*19.0*	22.6	45.1	24.4	17.0	25.7	51.3
97.5°	25.7	30.1	50.8	23.9	*22.1*	23.9	50.8	30.1	25.7	31.3	58.9
100°	33.8	33.8	91.4	27.0	*24.6*	27.0	91.4	33.8	33.8	38.8	91.4
102.5°	50.8	65.8	210.4	51.5	*29.0*	51.5	210.4	65.8	50.8	72.0	193.4
105°	91.4	148.4	368.7	127.2	*50.3*	127.2	368.7	148.4	91.4	149.6	344.2
107.5°	172.2	275.4	474.4	247.4	*111.0*	247.4	474.4	275.4	172.2	264.1	454.3
110°	274.7	384.3	517.5	337.4	*219.9*	337.4	517.5	384.3	274.7	362.3	476.3

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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°	357.3	428.1	505.7	373.8	*302.4*	373.8	505.7	428.1	357.3	399.9	456.2
115°	388.7	421.8	451.8	372.5	*335.0*	372.5	451.8	421.8	388.7	390.5	407.4
117.5°	375.5	386.2	390.5	349.9	*336.9*	349.9	390.5	386.2	375.5	351.7	346.1
120°	339.2	334.8	329.9	316.8	*318.1*	316.8	329.9	334.8	339.2	307.3	289.1
122.5°	294.2	284.8	279.2	283.7	*292.4*	283.7	279.2	284.8	294.2	262.3	248.5
125°	249.8	240.4	244.2	254.9	*264.3*	254.9	244.2	240.4	249.8	223.5	219.8
127.5°	212.9	208.5	218.6	230.5	*238.7*	230.5	218.6	208.5	212.9	196.0	199.1
130°	186.6	187.3	200.4	211.1	*216.1*	211.1	200.4	187.3	186.6	178.5	186.6
132.5°	170.4	174.8	187.3	196.8	*199.9*	196.8	187.3	174.8	170.4	168.5	178.5
135°	160.4	166.6	178.5	184.2	*186.1*	184.2	178.5	166.6	160.4	161.6	170.4
137.5°	154.7	161.0	169.7	174.9	*174.2*	174.9	169.7	161.0	154.7	157.4	164.2
140°	151.7	157.9	161.6	167.3	*167.3*	167.3	161.6	157.9	151.7	153.0	158.6
142.5°	148.6	154.2	156.1	160.4	*159.8*	160.4	156.1	154.2	148.6	149.8	153.6
145°	147.3	151.7	149.8	154.8	*154.2*	154.8	149.8	151.7	147.3	147.3	149.8
147.5°	144.1	147.3	145.4	149.8	*149.2*	149.8	145.4	147.3	144.1	144.1	145.4
150°	141.1	143.6	140.4	145.4	*146.1*	145.4	140.4	143.6	141.1	140.4	141.7
152.5°	136.7	139.2	136.7	142.4	*142.4*	142.4	136.7	139.2	136.7	136.0	137.3
155°	133.6	134.9	133.6	139.3	*139.9*	139.3	133.6	134.9	133.6	132.9	134.3
157.5°	131.8	133.0	132.5	137.5	*138.2*	137.5	132.5	133.0	131.8	131.8	132.5
160°	131.3	132.5	132.6	137.0	*137.6*	137.0	132.6	132.5	131.3	131.3	131.9
162.5°	131.3	131.3	132.0	136.4	*137.7*	136.4	132.0	131.3	131.3	131.3	131.9
165°	131.4	132.0	132.1	135.8	*137.8*	135.8	132.1	132.0	131.4	131.4	131.4
167.5°	132.1	131.5	132.8	136.5	*138.4*	136.5	132.8	131.5	132.1	132.0	132.0
170°	131.5	132.1	132.8	136.6	*138.4*	136.6	132.8	132.1	131.5	132.1	132.1
172.5°	133.4	133.4	134.1	137.2	*139.8*	137.2	134.1	133.4	133.4	133.4	134.1
175°	134.6	134.6	135.4	137.9	*140.5*	137.9	135.4	134.6	134.6	134.0	134.0
177.5°	134.0	135.3	136.6	139.2	*142.4*	139.2	136.6	135.3	134.0	134.0	134.0
180°	135.3	135.3	135.3	135.3	*135.3*	135.3	135.3	135.3	135.3	135.3	135.3

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	34552.9	34552.9	34552.9	34552.9	34552.9	34552.9
2.5°	33549.2	33527.2	33549.2	33783.8	34088.9	34532.8
5°	32769.8	32648.0	32769.8	33029.6	33590.0	34434.9
7.5°	31862.0	31791.4	31862.0	32296.8	33005.0	34201.0
10°	*30906.3*	*30746.4*	*30906.3*	*31397.5*	*32232.6*	*33844.0*
12.5°	29728.5	29516.6	29728.5	30235.7	31289.3	33274.5
15°	28230.5	28044.5	28230.5	28793.5	30015.5	32432.2
17.5°	26623.0	26454.6	26623.0	27112.2	28457.9	31245.3
20°	24604.0	24471.9	24604.0	25296.1	26616.5	29715.5
22.5°	22486.0	22362.3	22486.0	23100.9	24475.1	27797.6
25°	19994.1	19926.7	19994.1	20681.0	21923.6	25554.6
27.5°	17301.4	17186.7	17301.4	18019.9	19289.2	22916.3
30°	14550.4	14360.5	14550.4	15193.0	16329.5	19985.7
32.5°	11859.5	11722.8	11859.5	12317.6	13505.2	16704.6
35°	9258.8	9122.0	9258.8	9672.8	10839.0	13677.6
37.5°	7214.6	6972.9	7214.6	7480.2	8426.8	10734.1
40°	5471.7	5432.8	5471.7	5806.0	6411.8	8351.0
42.5°	4454.5	4348.8	4454.5	4598.3	5051.9	6327.6
45°	3654.9	3613.5	3654.9	3763.8	4068.3	4946.2
47.5°	3143.1	3161.2	3143.1	3213.1	3441.1	4028.1
50°	2761.4	2772.5	2761.4	2794.5	2946.7	3383.5
52.5°	2480.2	2470.5	2480.2	2483.5	2578.1	2906.5
55°	2231.5	2219.1	2231.5	2224.3	2294.3	2504.8
57.5°	2013.8	2022.8	2013.8	2004.0	2041.6	2199.7
60°	1819.3	1827.8	1819.3	1812.2	1836.8	1929.5
62.5°	1655.4	1660.7	1655.4	1654.8	1650.2	1721.5
65°	1509.0	1514.9	1509.0	1501.3	1494.1	1527.2
67.5°	1369.1	1369.1	1369.1	1355.5	1344.5	1376.8
70°	1237.5	1236.9	1237.5	1215.5	1207.0	1216.8
72.5°	1079.4	1095.0	1079.4	1063.2	1062.5	1063.8
75°	925.9	944.0	925.9	915.5	903.9	913.6
77.5°	770.4	798.2	770.4	762.0	756.1	749.6
80°	611.0	641.4	611.0	596.7	588.3	599.3
82.5°	451.6	474.3	451.6	434.1	433.5	438.6
85°	268.9	305.2	268.9	253.3	259.2	253.3
87.5°	86.2	110.1	86.2	82.3	90.7	88.8
90°	13.8	8.8	13.8	23.2	15.0	8.8
92.5°	20.7	12.6	20.7	37.0	19.4	11.3
95°	23.8	14.4	23.8	51.3	25.7	17.0
97.5°	26.3	18.8	26.3	58.9	31.3	25.7
100°	30.7	24.4	30.7	91.4	38.8	33.8
102.5°	64.5	40.7	64.5	193.4	72.0	50.8
105°	135.2	69.5	135.2	344.2	149.6	91.4
107.5°	241.6	119.5	241.6	454.3	264.1	172.2
110°	320.4	222.2	320.4	476.3	362.3	274.7

TEST NUMBER: P1433867
CATALOG NUMBER: EHBR1-42-UNV-TASM-L940-UPL12

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	344.2	299.8	344.2	456.2	399.9	357.3
115°	331.0	315.5	331.0	407.4	390.5	388.7
117.5°	302.2	304.7	302.2	346.1	351.7	375.5
120°	269.1	282.3	269.1	289.1	307.3	339.2
122.5°	239.1	254.1	239.1	248.5	262.3	294.2
125°	212.8	228.4	212.8	219.8	223.5	249.8
127.5°	194.6	205.3	194.6	199.1	196.0	212.9
130°	180.9	189.7	180.9	186.6	178.5	186.6
132.5°	171.5	177.2	171.5	178.5	168.5	170.4
135°	163.4	167.8	163.4	170.4	161.6	160.4
137.5°	156.6	160.3	156.6	164.2	157.4	154.7
140°	151.0	154.1	151.0	158.6	153.0	151.7
142.5°	144.8	147.3	144.8	153.6	149.8	148.6
145°	141.1	142.9	141.1	149.8	147.3	147.3
147.5°	137.9	139.2	137.9	145.4	144.1	144.1
150°	134.8	136.1	134.8	141.7	140.4	141.1
152.5°	131.1	133.0	131.1	137.3	136.0	136.7
155°	129.3	131.2	129.3	134.3	132.9	133.6
157.5°	128.7	130.6	128.7	132.5	131.8	131.8
160°	128.8	130.1	128.8	131.9	131.3	131.3
162.5°	128.2	129.5	128.2	131.9	131.3	131.3
165°	128.8	129.5	128.8	131.4	131.4	131.4
167.5°	128.9	129.5	128.9	132.0	132.0	132.1
170°	129.6	130.2	129.6	132.1	132.1	131.5
172.5°	130.9	131.5	130.9	134.1	133.4	133.4
175°	131.5	132.1	131.5	134.0	134.0	134.6
177.5°	132.8	133.4	132.8	134.0	134.0	134.0
180°	135.3	135.3	135.3	135.3	135.3	135.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1433867
CATALOG NUMBER: EHBR1-42-UNV-TASM-L940-UPL12

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	18.62	19.78	19.04	20.16	20.55	17.94	19.10	18.36	19.48	19.87
	3H	20.17	21.20	20.61	21.60	22.04	19.79	20.82	20.22	21.22	21.66
	4H	20.81	21.77	21.27	22.19	22.64	20.57	21.54	21.03	21.95	22.41
	6H	21.29	22.18	21.76	22.61	23.08	21.22	22.10	21.69	22.54	23.00
	8H	21.44	22.28	21.93	22.73	23.21	21.44	22.28	21.93	22.73	23.21
	12H	21.52	22.32	22.00	22.76	23.26	21.57	22.37	22.06	22.81	23.31
4H	2H	19.04	20.00	19.50	20.42	20.87	18.52	19.48	18.98	19.90	20.35
	3H	20.84	21.64	21.31	22.10	22.57	20.58	21.37	21.05	21.84	22.31
	4H	21.62	22.33	22.10	22.81	23.32	21.49	22.20	21.98	22.68	23.19
	6H	22.23	22.85	22.75	23.35	23.89	22.26	22.88	22.78	23.38	23.92
	8H	22.43	23.00	22.95	23.50	24.05	22.53	23.11	23.05	23.61	24.15
	12H	22.54	23.04	23.07	23.58	24.12	22.70	23.21	23.24	23.74	24.29
8H	4H	21.87	22.44	22.39	22.94	23.48	21.77	22.34	22.29	22.85	23.39
	6H	22.61	23.08	23.16	23.63	24.18	22.67	23.14	23.23	23.69	24.24
	8H	22.88	23.29	23.45	23.86	24.42	23.03	23.44	23.60	24.01	24.57
	12H	23.05	23.42	23.62	23.96	24.60	23.28	23.64	23.84	24.19	24.83
12H	4H	21.88	22.38	22.42	22.92	23.46	21.78	22.29	22.32	22.82	23.37
	6H	22.65	23.07	23.22	23.64	24.20	22.72	23.14	23.29	23.70	24.26
	8H	22.97	23.34	23.54	23.88	24.52	23.12	23.49	23.69	24.04	24.67

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-6

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L935-N

Data in this report applies to families of products including EHBR-60-L935-N

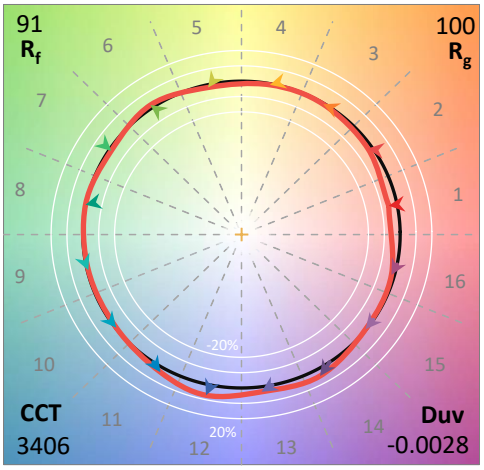
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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	CRI (Ra):	94.6		
CIE u':	0.2394	R1:	96.6	R9:	63.8
CIE v':	0.5094	R2:	98.4	R10:	94.7
Duv:	-0.0028	R3:	98.1	R11:	96.6
CIE x:	0.4076	R4:	95.8	R12:	80.9
CIE y:	0.3856	R5:	96.2	R13:	97.4
CIE z:	0.2068	R6:	95.4	R14:	98.3
Peak Wavelength (nm):	630	R7:	91.8	R15:	93.1
Dominant Wavelength (nm):	582	R8:	84.4		
Purity:	38.0517				
Rf:	91.3				
Rg:	100				



Test Conditions

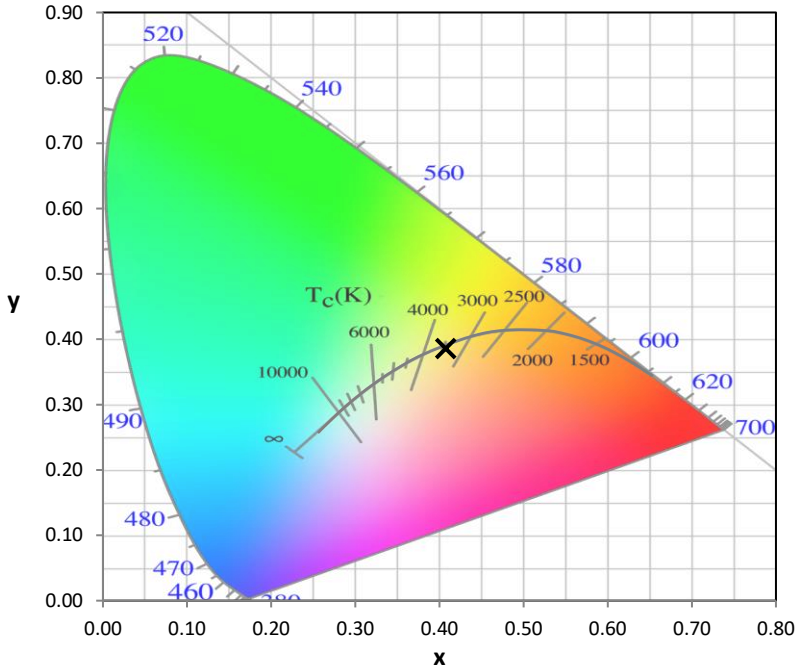
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-6

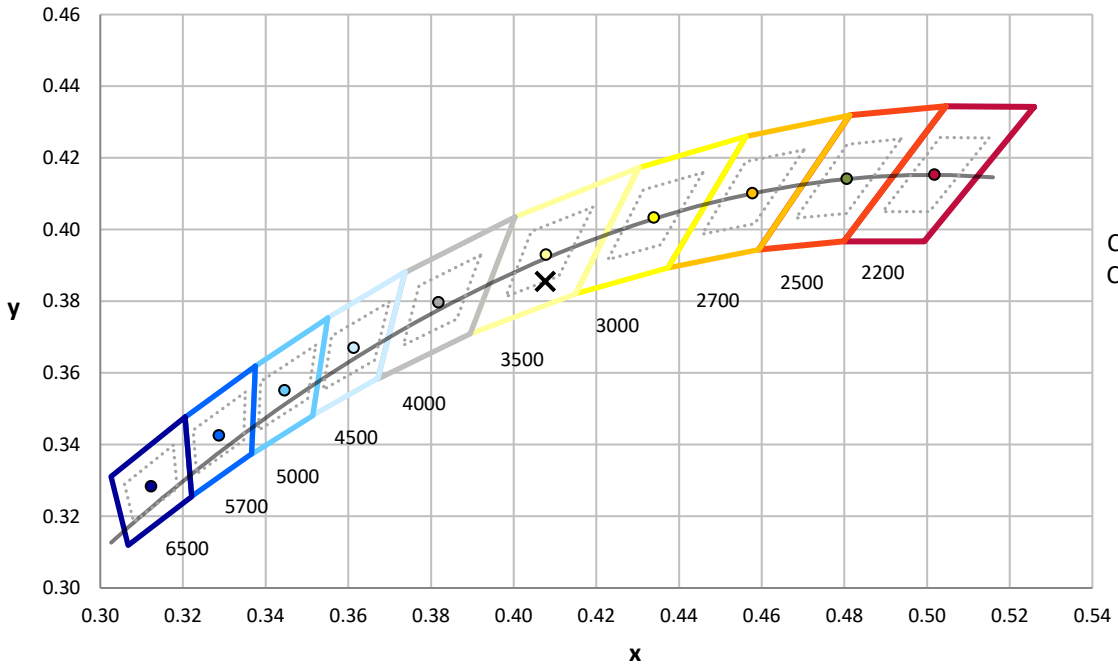
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2506-472-6

CIE 1931 Chromaticity Diagram



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

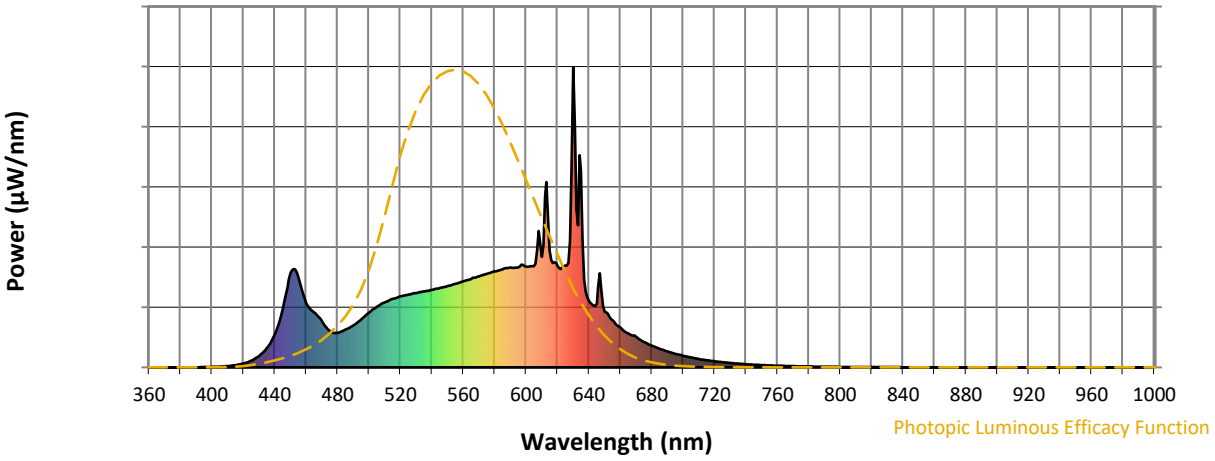


CCT = 3406K
CIE x = 0.4076
CIE y = 0.3856
Duv = -0.0028

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

Photopic Flux vs. Wavelength

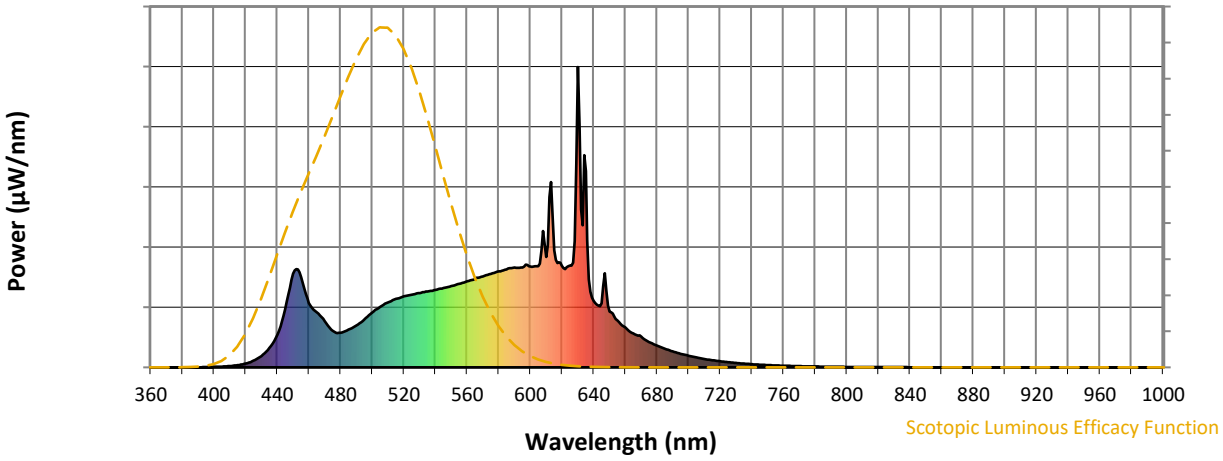


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Scotopic Flux vs. Wavelength

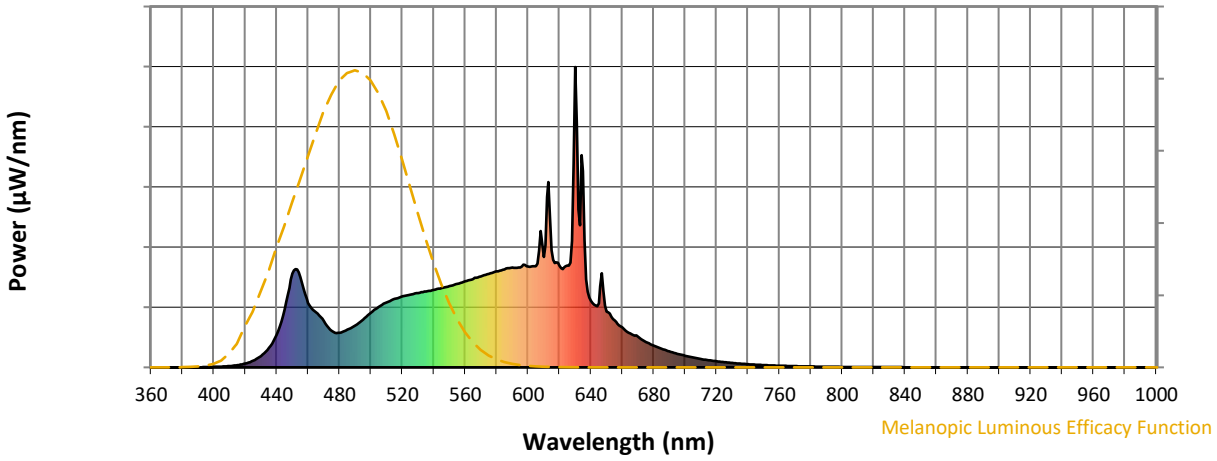


Scotopic Lumens: NR **S/P: 1.62**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.3**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

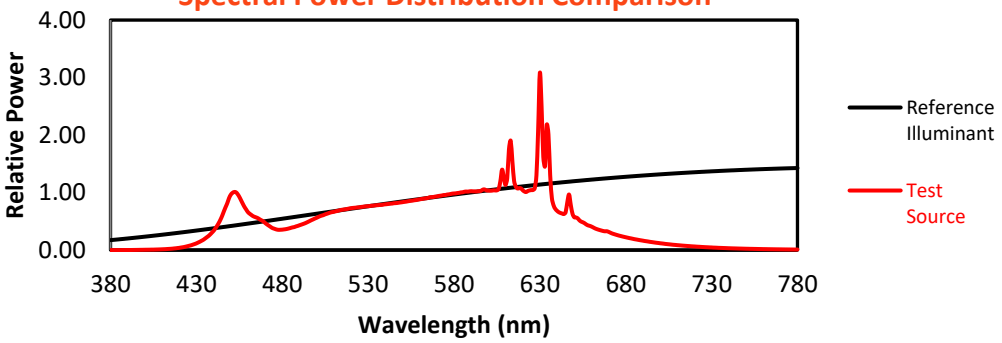
REPORT NUMBER: SP1-2506-472-6

TM-30-18

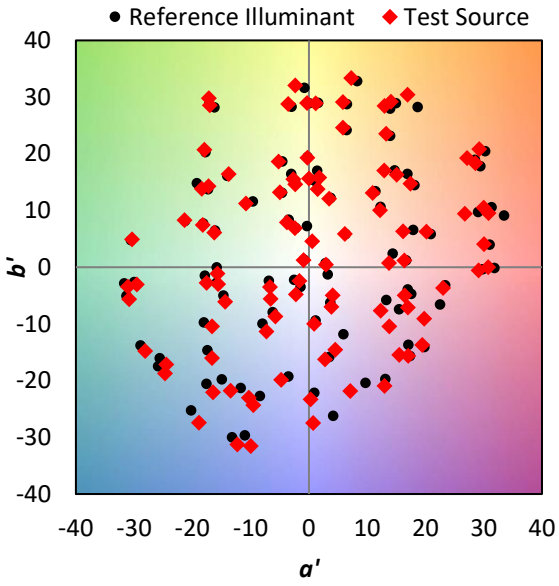
Summary

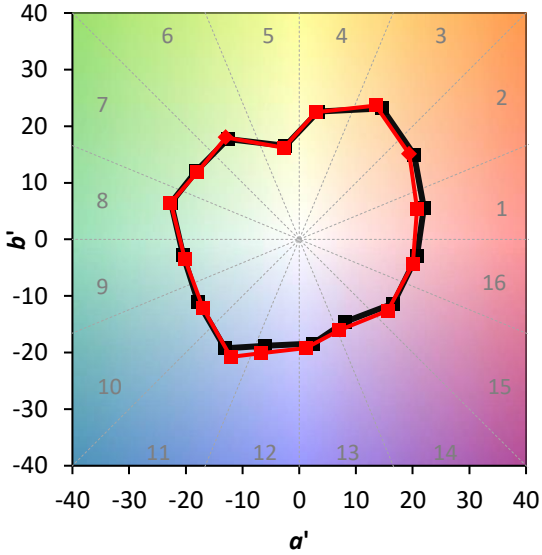
R_f = 91.3
R_g = 100
CIE R_a = 94.6
R_9 = 63.8

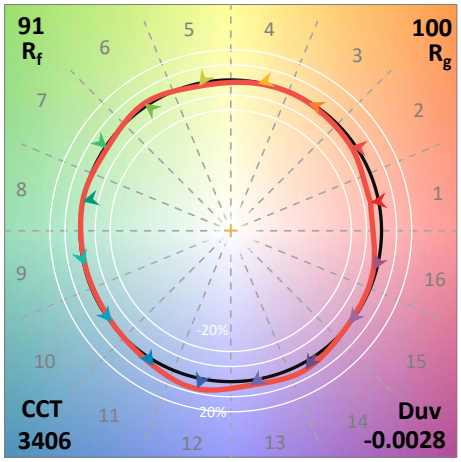
Spectral Power Distribution Comparison

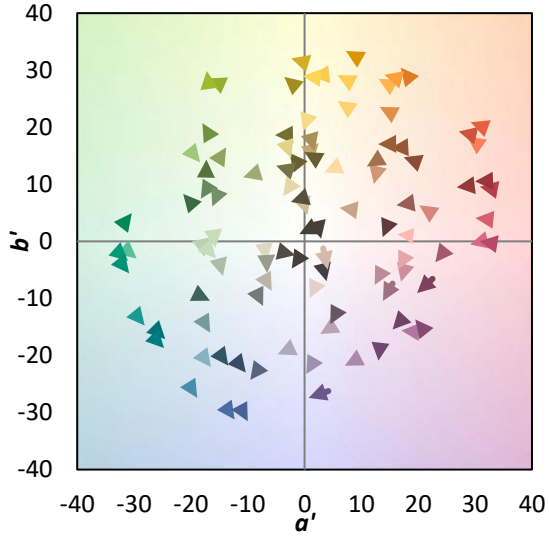


Color Vector Graphics









REPORT NUMBER: SP1-2506-472-6

TM-30-18

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
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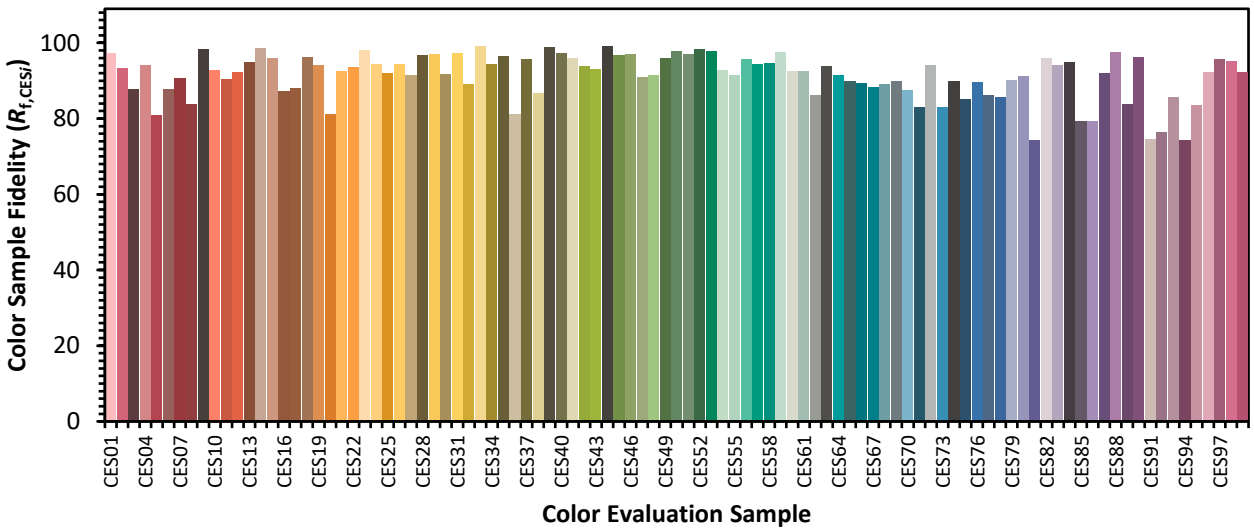
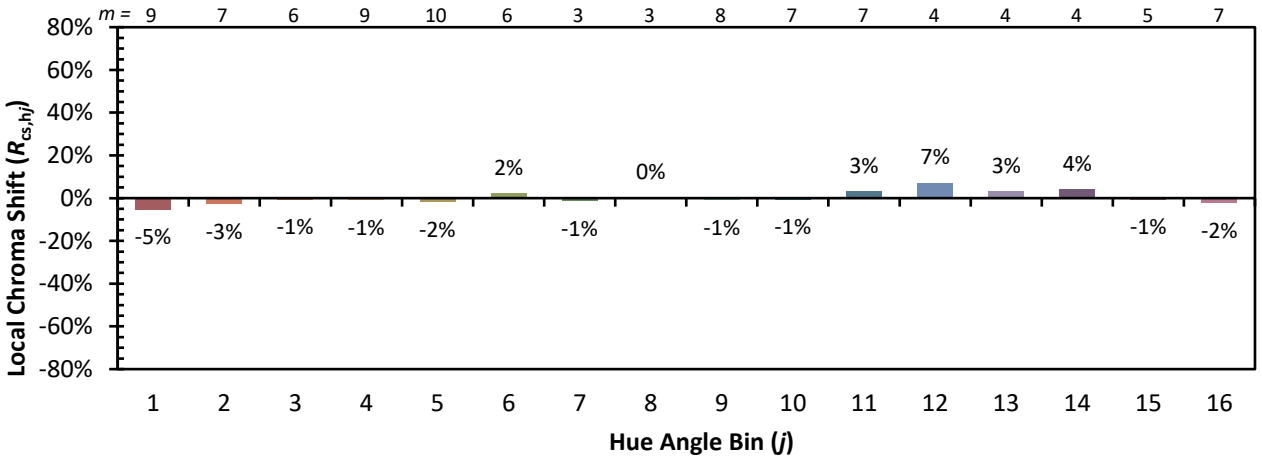
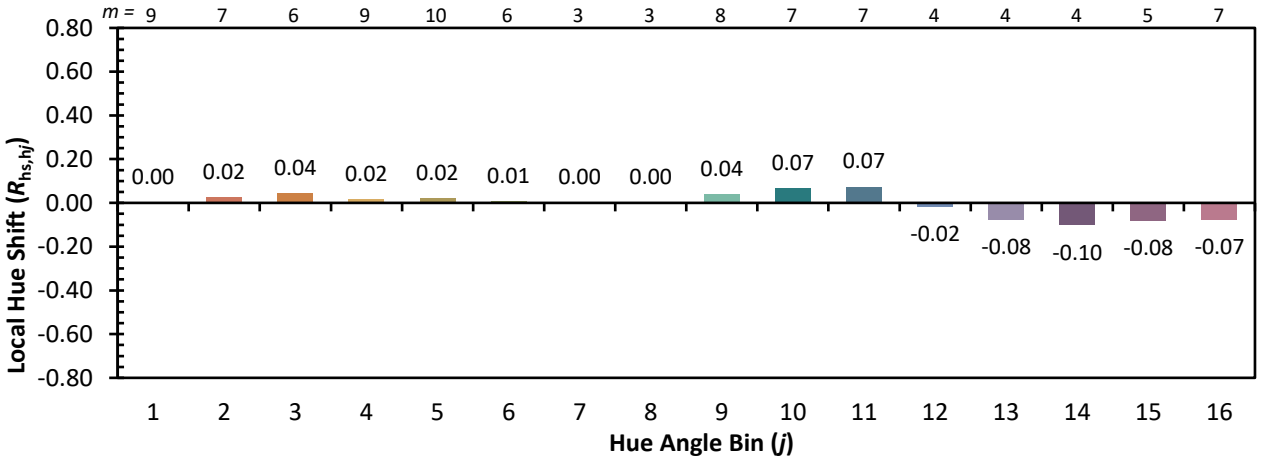


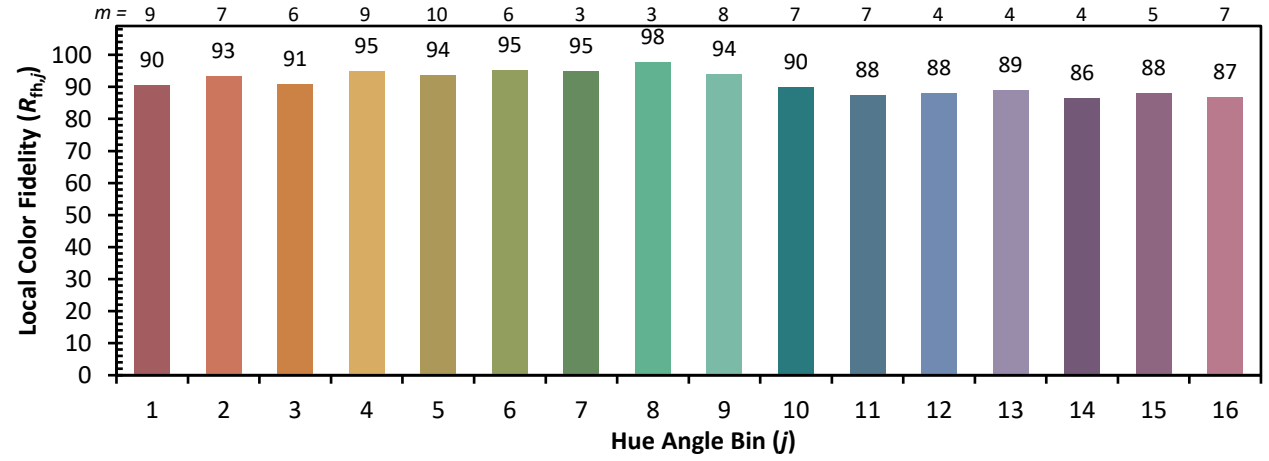
REPORT NUMBER: SP1-2506-472-6

TM-30-18

Color Rendition by Hue-Angle Bin



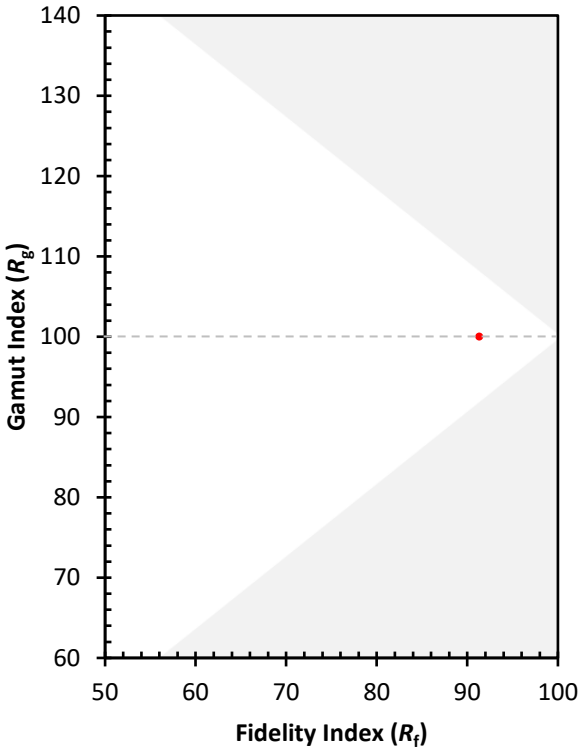


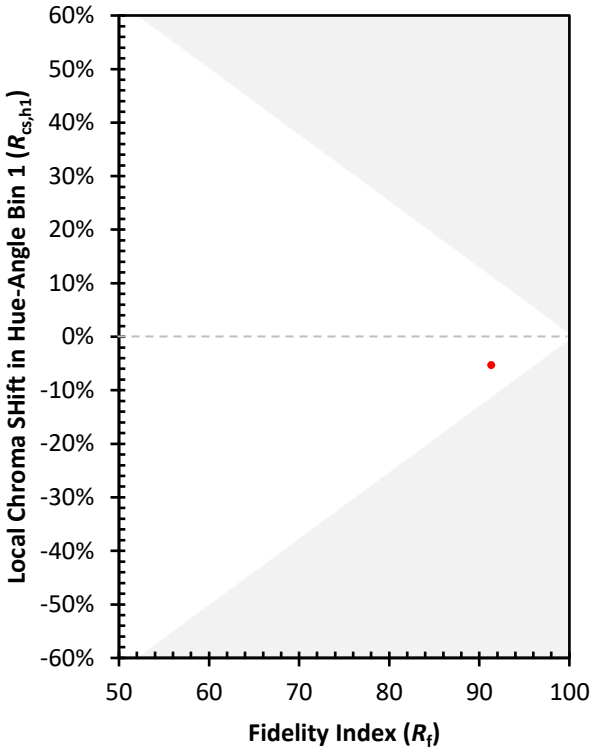


REPORT NUMBER: SP1-2506-472-6

TM-30-18

Measure Comparisons





(END OF REPORT)