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: P1433839

Luminaire Tested: EHBR1-36-UNV-TASM-L940-UPL30

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:	P1433839
	REPORT IS A COMBINATION OF REPORTS P1431776 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-36-UNV-TASM-L940-UPL30
Description:	Elevate Round Highbay at, 36000 lumens, 4000K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	36446.8 lumens
Efficiency:	N/A
Efficacy:	170.8 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

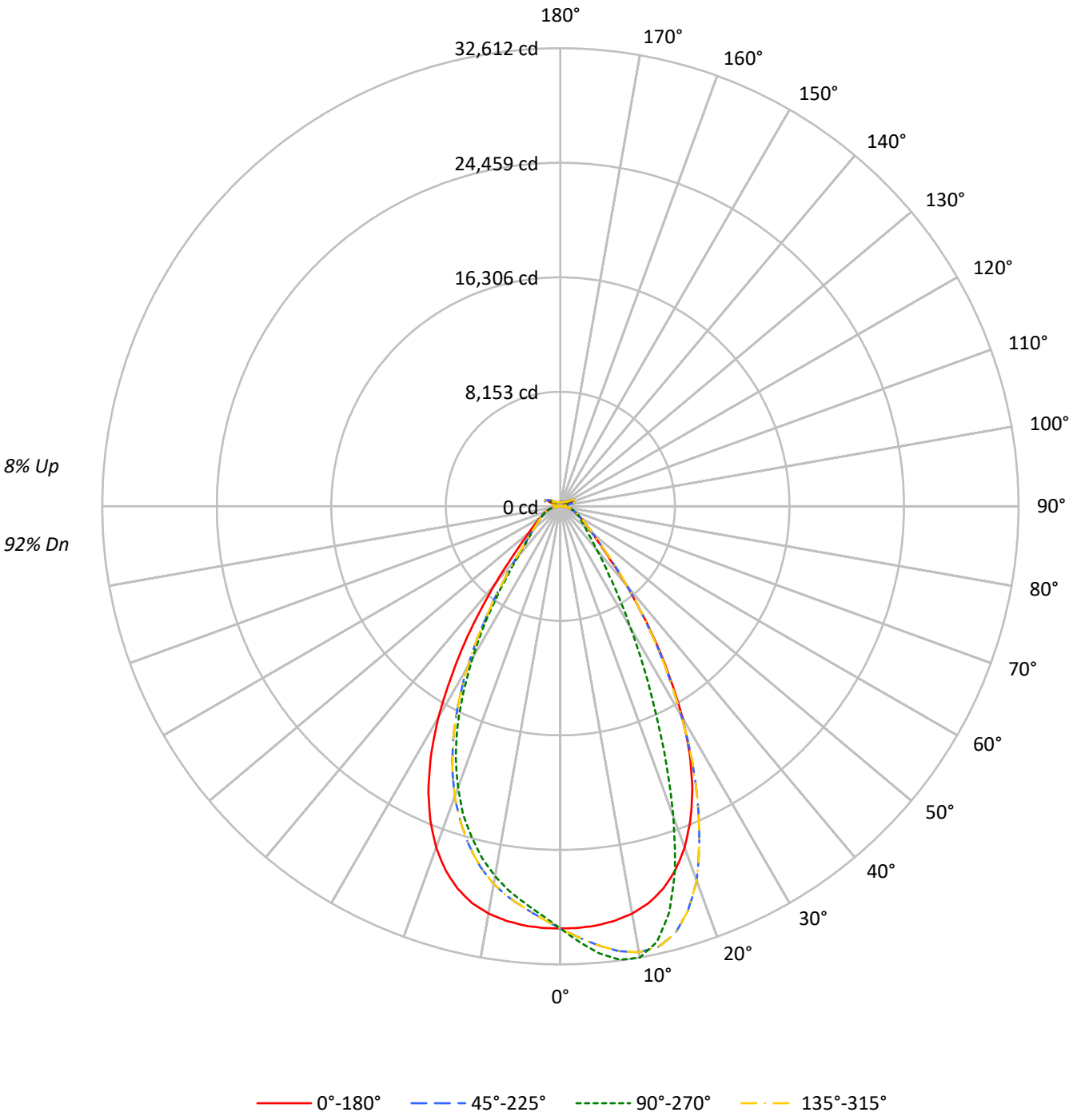
Input Watts (W):	213.4
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

TEST NUMBER: P1433839
CATALOG NUMBER: EHBR1-36-UNV-TASM-L940-UPL30

Luminous Intensity Polar Plot



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

Scaled Data Report

TEST NUMBER: P1433839
CATALOG NUMBER: EHBR1-36-UNV-TASM-L940-UPL30

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	110	106	103	101	107	104	101	98	98	96	94	93	91	90	88	87	86	83
2	103	97	92	88	100	95	90	86	90	86	83	86	83	80	82	79	77	75
3	97	89	83	78	94	87	81	77	83	78	75	79	75	72	76	73	70	68
4	91	82	75	70	88	80	74	69	77	72	67	74	69	66	71	67	64	62
5	85	75	69	63	83	74	68	63	71	66	62	69	64	60	66	62	59	57
6	80	70	63	58	78	69	62	58	66	61	57	64	59	56	62	58	55	53
7	76	65	58	53	74	64	58	53	62	56	52	60	55	51	58	54	51	49
8	72	61	54	49	70	60	54	49	58	52	48	56	51	48	55	50	47	45
9	68	57	50	46	66	56	50	46	55	49	45	53	48	45	52	47	44	42
10	64	54	47	43	63	53	47	43	51	46	42	50	45	42	49	44	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	141138	141138	141138	141138
5°	140280	149652	140280	133000
10°	138555	153494	138555	125873
15°	134464	142644	134464	116273
20°	125757	114381	125757	103566
25°	111305	79250	111305	86793
30°	90376	51558	90376	64939
35°	64820	33390	64820	43231
40°	41908	23014	41908	27264
45°	26590	17827	26590	19426
50°	19747	15149	19747	16181
55°	16122	13800	16122	14283
60°	13961	13145	13961	13225
65°	12726	12677	12726	12623
70°	12061	12421	12061	12262
75°	11280	12017	11280	11658
80°	9909	11345	9909	10607
85°	6410	8100	6410	7722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 37385 cd/sqm

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

Scaled Data Report

TEST NUMBER: P1433839
CATALOG NUMBER: EHBR1-36-UNV-TASM-L940-UPL30

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2857.7	7.8
10°-20°	7774.6	21.3
20°-30°	9118.0	25.0
30°-40°	6341.0	17.4
40°-50°	3151.2	8.6
50°-60°	1884.7	5.2
60°-70°	1326.6	3.6
70°-80°	854.5	2.3
80°-90°	276.4	0.8
90°-100°	76.4	0.2
100°-110°	497.2	1.4
110°-120°	918.3	2.5
120°-130°	546.0	1.5
130°-140°	330.5	0.9
140°-150°	229.0	0.6
150°-160°	149.8	0.4
160°-170°	86.3	0.2
170°-180°	28.8	0.1
0°-30°	19750.3	54.2
0°-40°	26091.3	71.6
0°-60°	31127.2	85.4
0°-90°	33584.7	92.1
90°-120°	1491.8	4.1
90°-150°	2597.2	7.1
90°-180°	2862.0	7.9
0°-180°	36446.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	30054	30054	30054	30054	30054	
5°	29952	31953	29952	28398	29952	2842
15°	28210	29926	28210	24393	28210	7884
25°	22228	15826	22228	17332	22228	10063
35°	11897	6128	11897	7934	11897	7427
45°	4302	2884	4302	3143	4302	3521
55°	2179	1865	2179	1930	2179	1992
65°	1328	1323	1328	1318	1328	1334
75°	795	846	795	821	795	834
85°	220	278	220	265	220	245
90°	21	25	21	21	21	20
95°	41	39	41	35	41	43
105°	228	117	228	173	228	308
115°	977	835	977	794	977	891
125°	626	656	626	573	626	576
135°	396	458	396	419	396	314
145°	359	375	359	349	359	225
155°	320	334	320	311	320	149
165°	302	312	302	297	302	86
175°	302	308	302	297	302	29
180°	302	302	302	302	302	

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

Scaled Data Report

TEST NUMBER: P1433839
CATALOG NUMBER: EHBR1-36-UNV-TASM-L940-UPL30

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	30054.4	30054.4	30054.4	30054.4	*30054.4*	30054.4	30054.4	30054.4	30054.4	30054.4	30054.4
2.5°	30036.9	30425.2	30739.7	30947.1	*31049.6*	30947.1	30739.7	30425.2	30036.9	29650.8	29385.4
5°	29951.9	30729.6	31388.4	31819.5	*31953.0*	31819.5	31388.4	30729.6	29951.9	29217.0	28729.4
7.5°	29748.4	30960.1	31939.0	32442.2	*32565.1*	32442.2	31939.0	30960.1	29748.4	28708.0	28092.1
10°	*29437.9*	*31105.4*	*32236.5*	*32597.2*	*32611.9*	*32597.2*	*32236.5*	*31105.4*	*29437.9*	*28036.3*	*27309.8*
12.5°	28942.5	31053.6	32136.8	32018.4	*31749.6*	32018.4	32136.8	31053.6	28942.5	27215.7	26299.3
15°	28209.9	30746.5	31505.0	30541.9	*29925.9*	30541.9	31505.0	30746.5	28209.9	26107.8	25044.9
17.5°	27177.4	30171.6	30186.3	28280.9	*27118.8*	28280.9	30186.3	30171.6	27177.4	24752.9	23582.4
20°	25846.8	29249.7	28370.5	24885.4	*23508.6*	24885.4	28370.5	29249.7	25846.8	23151.3	22002.8
22.5°	24178.6	28006.4	25841.7	21469.6	*19591.2*	21469.6	25841.7	28006.4	24178.6	21288.7	20093.4
25°	22227.6	26483.1	23121.4	17747.9	*15826.1*	17747.9	23121.4	26483.1	22227.6	19069.4	17988.5
27.5°	19932.8	24552.3	20224.7	14502.8	*12729.8*	14502.8	20224.7	24552.3	19932.8	16777.9	15673.9
30°	17383.8	22077.1	17210.2	11549.7	*9917.1*	11549.7	17210.2	22077.1	17383.8	14203.6	13215.0
32.5°	14529.9	19651.0	14315.1	9254.3	*7871.3*	9254.3	14315.1	19651.0	14529.9	11746.9	10713.9
35°	11896.8	16615.6	11704.7	7271.7	*6128.2*	7271.7	11704.7	16615.6	11896.8	9427.9	8413.5
37.5°	9336.6	13747.6	9330.4	5855.5	*4970.6*	5855.5	9330.4	13747.6	9336.6	7329.7	6506.3
40°	7263.8	10749.4	7310.5	4674.3	*3988.9*	4674.3	7310.5	10749.4	7263.8	5577.0	5050.1
42.5°	5503.8	8219.6	5746.1	3836.2	*3388.1*	3836.2	5746.1	8219.6	5503.8	4394.1	3999.6
45°	4302.2	6048.7	4487.1	3236.5	*2884.4*	3236.5	4487.1	6048.7	4302.2	3538.7	3273.7
47.5°	3503.7	4674.8	3636.7	2776.1	*2529.3*	2776.1	3636.7	4674.8	3503.7	2993.1	2794.8
50°	2943.0	3587.1	3019.6	2423.3	*2257.7*	2423.3	3019.6	3587.1	2943.0	2563.1	2430.7
52.5°	2528.1	2925.5	2571.5	2159.6	*2048.0*	2159.6	2571.5	2925.5	2528.1	2242.5	2160.1
55°	2178.7	2459.4	2236.2	1942.0	*1864.9*	1942.0	2236.2	2459.4	2178.7	1995.6	1934.7
57.5°	1913.3	2086.3	1942.0	1756.6	*1705.4*	1756.6	1942.0	2086.3	1913.3	1775.8	1743.1
60°	1678.3	1806.8	1713.8	1594.9	*1580.3*	1594.9	1713.8	1806.8	1678.3	1597.7	1576.3
62.5°	1497.4	1578.6	1515.4	1449.5	*1436.5*	1449.5	1515.4	1578.6	1497.4	1435.4	1439.4
65°	1328.3	1403.8	1354.2	1318.7	*1323.2*	1318.7	1354.2	1403.8	1328.3	1299.6	1305.8
67.5°	1197.5	1237.0	1215.6	1195.3	*1200.4*	1195.3	1215.6	1237.0	1197.5	1169.4	1179.0
70°	1058.3	1100.6	1078.7	1081.5	*1089.9*	1081.5	1078.7	1100.6	1058.3	1050.0	1057.2
72.5°	925.4	958.1	950.7	957.5	*966.5*	957.5	950.7	958.1	925.4	924.3	924.8
75°	794.6	819.4	822.8	832.4	*846.5*	832.4	822.8	819.4	794.6	786.2	796.3
77.5°	652.1	680.2	690.9	703.9	*724.7*	703.9	690.9	680.2	652.1	657.6	662.8
80°	521.3	534.3	558.0	567.5	*596.8*	567.5	558.0	534.3	521.3	511.8	519.0
82.5°	381.5	393.3	413.7	431.7	*448.6*	431.7	413.7	393.3	381.5	377.0	377.6
85°	220.3	238.4	251.9	273.3	*278.4*	273.3	251.9	238.4	220.3	225.5	220.3
87.5°	77.2	82.8	94.7	103.1	*103.7*	103.1	94.7	82.8	77.2	78.9	71.6
90°	21.1	35.9	61.7	34.9	*25.0*	34.9	61.7	35.9	21.1	36.9	57.4
92.5°	27.4	48.4	86.9	45.9	*32.9*	45.9	86.9	48.4	27.4	47.9	92.1
95°	40.6	59.5	110.6	50.7	*39.2*	50.7	110.6	59.5	40.6	63.7	128.4
97.5°	62.7	73.7	124.8	53.8	*47.0*	53.8	124.8	73.7	62.7	77.9	147.4
100°	83.2	83.2	227.4	61.8	*53.4*	61.8	227.4	83.2	83.2	95.9	229.5
102.5°	125.9	162.7	526.3	122.3	*64.5*	122.3	526.3	162.7	125.9	179.5	486.7
105°	228.4	371.1	925.7	313.3	*117.1*	313.3	925.7	371.1	228.4	375.3	867.2
107.5°	432.0	691.5	1192.4	616.4	*270.2*	616.4	1192.4	691.5	432.0	664.1	1144.0
110°	690.9	966.1	1301.3	843.7	*544.9*	843.7	1301.3	966.1	690.9	911.9	1199.2

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

Scaled Data Report

TEST NUMBER: P1433839
CATALOG NUMBER: EHBR1-36-UNV-TASM-L940-UPL30

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	899.3	1076.6	1271.3	935.2	*753.2*	935.2	1271.3	1076.6	899.3	1006.6	1148.7
115°	977.2	1060.9	1135.6	932.1	*835.3*	932.1	1135.6	1060.9	977.2	983.0	1025.6
117.5°	944.0	970.9	980.9	875.3	*840.1*	875.3	980.9	970.9	944.0	884.0	870.9
120°	852.5	841.5	826.7	791.6	*792.7*	791.6	826.7	841.5	852.5	772.0	727.2
122.5°	737.9	714.1	698.9	706.9	*728.0*	706.9	698.9	714.1	737.9	657.3	623.6
125°	625.8	602.0	609.5	634.3	*656.0*	634.3	609.5	602.0	625.8	558.4	550.0
127.5°	531.6	520.5	544.7	572.8	*591.2*	572.8	544.7	520.5	531.6	488.9	497.9
130°	464.2	466.8	499.0	522.7	*534.4*	522.7	499.0	466.8	464.2	443.7	465.3
132.5°	422.2	434.2	464.8	485.5	*492.4*	485.5	464.8	434.2	422.2	416.4	442.7
135°	395.9	413.7	441.7	454.9	*457.7*	454.9	441.7	413.7	395.9	398.1	422.2
137.5°	380.7	398.6	419.6	430.2	*427.7*	430.2	419.6	398.6	380.7	386.0	404.4
140°	371.8	389.6	399.1	411.2	*409.4*	411.2	399.1	389.6	371.8	375.0	389.1
142.5°	363.0	379.2	383.8	393.0	*390.4*	393.0	383.8	379.2	363.0	366.1	375.6
145°	358.8	370.9	367.1	378.8	*375.2*	378.8	367.1	370.9	358.8	359.8	365.1
147.5°	351.0	359.8	355.1	365.1	*361.5*	365.1	355.1	359.8	351.0	351.0	353.1
150°	342.0	348.3	341.4	353.1	*352.6*	353.1	341.4	348.3	342.0	340.4	342.6
152.5°	329.9	336.2	329.9	343.1	*342.1*	343.1	329.9	336.2	329.9	328.3	330.5
155°	320.0	323.2	320.0	333.2	*333.7*	333.2	320.0	323.2	320.0	319.5	320.6
157.5°	313.2	315.4	313.8	325.4	*326.0*	325.4	313.8	315.4	313.2	313.2	313.8
160°	307.5	310.7	309.7	319.7	*320.3*	319.7	309.7	310.7	307.5	308.6	309.1
162.5°	305.5	305.5	305.1	315.1	*316.2*	315.1	305.1	305.5	305.5	305.5	307.1
165°	302.5	304.1	302.0	309.5	*312.2*	309.5	302.0	304.1	302.5	303.5	303.5
167.5°	302.0	300.5	301.7	308.1	*310.8*	308.1	301.7	300.5	302.0	303.1	303.1
170°	299.4	300.1	299.6	306.0	*308.7*	306.0	299.6	300.1	299.4	301.0	302.0
172.5°	301.2	301.2	299.7	304.6	*308.8*	304.6	299.7	301.2	301.2	302.2	303.8
175°	302.3	301.3	300.8	304.1	*308.4*	304.1	300.8	301.3	302.3	301.8	301.8
177.5°	300.7	301.9	303.0	306.2	*312.1*	306.2	303.0	301.9	300.7	301.8	301.8
180°	301.9	301.9	301.9	301.9	*301.9*	301.9	301.9	301.9	301.9	301.9	301.9

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

Scaled Data Report

TEST NUMBER: P1433839
CATALOG NUMBER: EHBR1-36-UNV-TASM-L940-UPL30

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	30054.4	30054.4	30054.4	30054.4	30054.4	30054.4
2.5°	29181.5	29162.3	29181.5	29385.4	29650.8	30036.9
5°	28503.4	28397.5	28503.4	28729.4	29217.0	29951.9
7.5°	27714.0	27652.5	27714.0	28092.1	28708.0	29748.4
10°	*26882.6*	*26743.5*	*26882.6*	*27309.8*	*28036.3*	*29437.9*
12.5°	25858.1	25673.8	25858.1	26299.3	27215.7	28942.5
15°	24555.1	24393.4	24555.1	25044.9	26107.8	28209.9
17.5°	23156.9	23010.4	23156.9	23582.4	24752.9	27177.4
20°	21400.8	21285.9	21400.8	22002.8	23151.3	25846.8
22.5°	19558.5	19450.9	19558.5	20093.4	21288.7	24178.6
25°	17391.0	17332.4	17391.0	17988.5	19069.4	22227.6
27.5°	15048.9	14949.2	15048.9	15673.9	16777.9	19932.8
30°	12656.0	12490.9	12656.0	13215.0	14203.6	17383.8
32.5°	10315.5	10196.6	10315.5	10713.9	11746.9	14529.9
35°	8053.3	7934.5	8053.3	8413.5	9427.9	11896.8
37.5°	6275.3	6065.1	6275.3	6506.3	7329.7	9336.6
40°	4759.3	4725.5	4759.3	5050.1	5577.0	7263.8
42.5°	3874.5	3782.7	3874.5	3999.6	4394.1	5503.8
45°	3179.1	3143.0	3179.1	3273.7	3538.7	4302.2
47.5°	2733.8	2749.7	2733.8	2794.8	2993.1	3503.7
50°	2401.9	2411.5	2401.9	2430.7	2563.1	2943.0
52.5°	2157.3	2148.8	2157.3	2160.1	2242.5	2528.1
55°	1940.9	1930.2	1940.9	1934.7	1995.6	2178.7
57.5°	1751.6	1759.4	1751.6	1743.1	1775.8	1913.3
60°	1582.5	1589.9	1582.5	1576.3	1597.7	1678.3
62.5°	1440.0	1444.4	1440.0	1439.4	1435.4	1497.4
65°	1312.5	1317.6	1312.5	1305.8	1299.6	1328.3
67.5°	1190.8	1190.8	1190.8	1179.0	1169.4	1197.5
70°	1076.4	1075.9	1076.4	1057.2	1050.0	1058.3
72.5°	938.9	952.4	938.9	924.8	924.3	925.4
75°	805.3	821.2	805.3	796.3	786.2	794.6
77.5°	670.0	694.4	670.0	662.8	657.6	652.1
80°	531.4	558.0	531.4	519.0	511.8	521.3
82.5°	392.8	412.5	392.8	377.6	377.0	381.5
85°	233.8	265.4	233.8	220.3	225.5	220.3
87.5°	75.0	95.8	75.0	71.6	78.9	77.2
90°	33.7	21.1	33.7	57.4	36.9	21.1
92.5°	51.1	30.6	51.1	92.1	47.9	27.4
95°	59.0	35.3	59.0	128.4	63.7	40.6
97.5°	65.3	45.3	65.3	147.4	77.9	62.7
100°	76.3	59.5	76.3	229.5	95.9	83.2
102.5°	161.5	100.5	161.5	486.7	179.5	125.9
105°	340.0	173.2	340.0	867.2	375.3	228.4
107.5°	608.3	299.4	608.3	1144.0	664.1	432.0
110°	807.2	558.3	807.2	1199.2	911.9	690.9

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

Scaled Data Report

TEST NUMBER: P1433839
CATALOG NUMBER: EHBR1-36-UNV-TASM-L940-UPL30

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	867.2	754.1	867.2	1148.7	1006.6	899.3
115°	834.0	793.5	834.0	1025.6	983.0	977.2
117.5°	761.4	766.7	761.4	870.9	884.0	944.0
120°	677.8	709.8	677.8	727.2	772.0	852.5
122.5°	600.9	638.8	600.9	623.6	657.3	737.9
125°	534.7	573.1	534.7	550.0	558.4	625.8
127.5°	488.8	514.7	488.8	497.9	488.9	531.6
130°	453.2	475.2	453.2	465.3	443.7	464.2
132.5°	428.5	442.6	428.5	442.7	416.4	422.2
135°	406.8	419.0	406.8	422.2	398.1	395.9
137.5°	388.5	399.0	388.5	404.4	386.0	380.7
140°	372.3	381.1	372.3	389.1	375.0	371.8
142.5°	355.4	361.8	355.4	375.6	366.1	363.0
145°	344.1	348.8	344.1	365.1	359.8	358.8
147.5°	334.1	337.3	334.1	353.1	351.0	351.0
150°	324.2	327.4	324.2	342.6	340.4	342.0
152.5°	313.7	317.4	313.7	330.5	328.3	329.9
155°	306.9	310.6	306.9	320.6	319.5	320.0
157.5°	303.3	306.0	303.3	313.8	313.2	313.2
160°	300.3	302.4	300.3	309.1	308.6	307.5
162.5°	296.6	298.8	296.6	307.1	305.5	305.5
165°	296.2	296.7	296.2	303.5	303.5	302.5
167.5°	295.1	296.7	295.1	303.1	303.1	302.0
170°	295.7	296.3	295.7	302.0	301.0	299.4
172.5°	296.9	297.5	296.9	303.8	302.2	301.2
175°	296.4	297.0	296.4	301.8	301.8	302.3
177.5°	298.6	299.2	298.6	301.8	301.8	300.7
180°	301.9	301.9	301.9	301.9	301.9	301.9

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

Scaled Data Report

TEST NUMBER: P1433839
CATALOG NUMBER: EHBR1-36-UNV-TASM-L940-UPL30

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	17.74	18.83	18.25	19.31	19.82	17.06	18.15	17.56	18.62	19.14
	3H	19.29	20.26	19.81	20.75	21.31	18.91	19.88	19.43	20.37	20.92
	4H	19.92	20.83	20.46	21.34	21.91	19.69	20.59	20.23	21.10	21.67
	6H	20.40	21.24	20.96	21.76	22.34	20.33	21.16	20.88	21.69	22.27
	8H	20.56	21.34	21.12	21.88	22.48	20.55	21.34	21.12	21.88	22.47
	12H	20.63	21.38	21.19	21.91	22.53	20.68	21.43	21.25	21.96	22.58
4H	2H	18.16	19.06	18.70	19.57	20.14	17.63	18.54	18.17	19.05	19.62
	3H	19.95	20.70	20.50	21.25	21.84	19.69	20.44	20.24	20.99	21.58
	4H	20.73	21.40	21.30	21.96	22.59	20.60	21.27	21.17	21.83	22.46
	6H	21.34	21.92	21.93	22.51	23.15	21.37	21.95	21.96	22.54	23.18
	8H	21.54	22.08	22.14	22.66	23.31	21.64	22.18	22.24	22.77	23.42
	12H	21.64	22.12	22.26	22.74	23.39	21.81	22.28	22.42	22.90	23.56
8H	4H	20.97	21.52	21.57	22.10	22.75	20.88	21.42	21.48	22.00	22.65
	6H	21.72	22.16	22.35	22.79	23.45	21.78	22.22	22.41	22.85	23.51
	8H	21.99	22.38	22.63	23.02	23.69	22.13	22.53	22.78	23.17	23.84
	12H	22.16	22.50	22.80	23.13	23.87	22.38	22.73	23.03	23.35	24.10
12H	4H	20.98	21.46	21.60	22.08	22.73	20.89	21.36	21.50	21.98	22.64
	6H	21.76	22.15	22.41	22.80	23.47	21.83	22.22	22.47	22.86	23.53
	8H	22.08	22.42	22.72	23.05	23.79	22.23	22.57	22.87	23.20	23.94

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

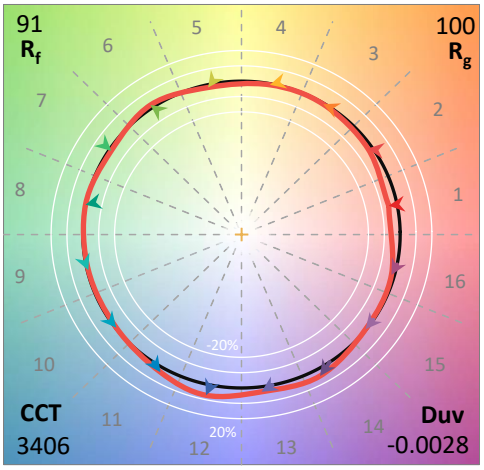
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

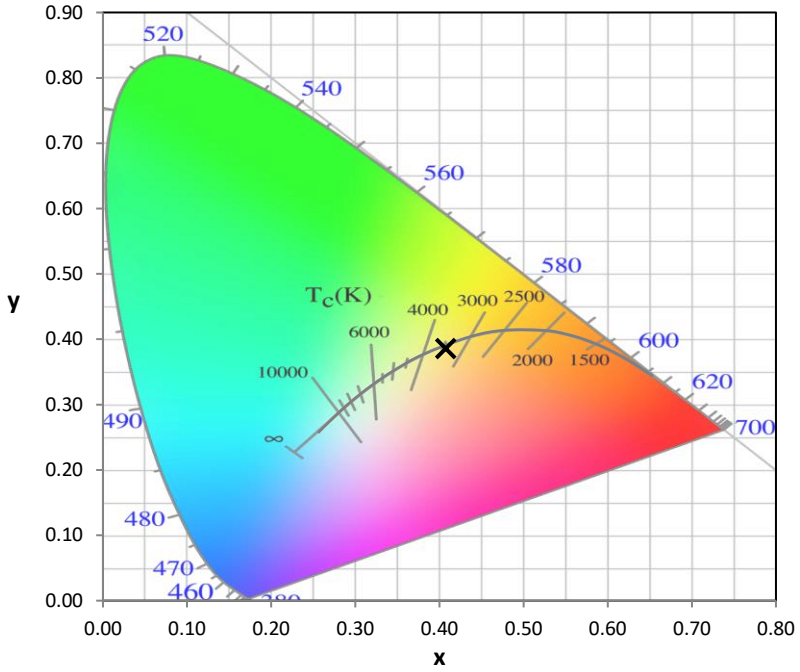
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-6

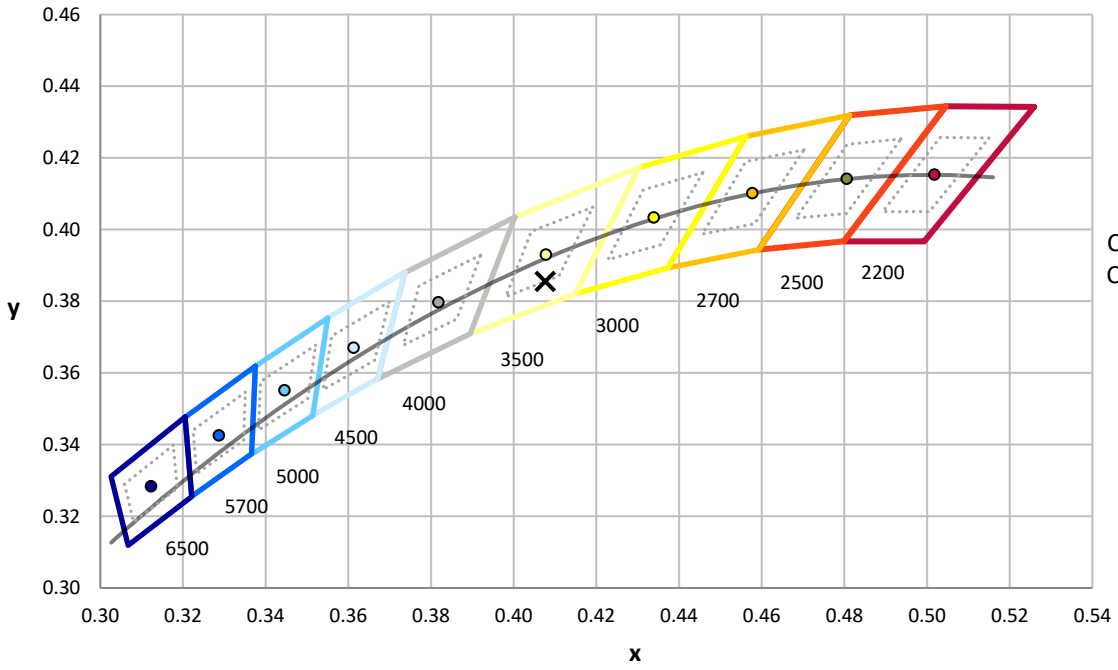
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

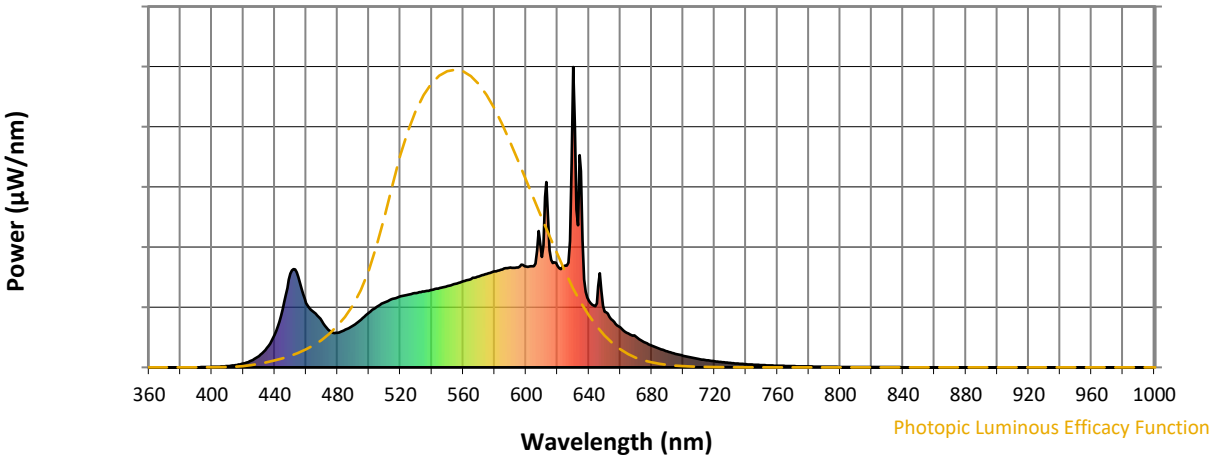


CCT = 3406K
CIE x = 0.4076
CIE y = 0.3856
Duv = -0.0028

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

Photopic Flux vs. Wavelength

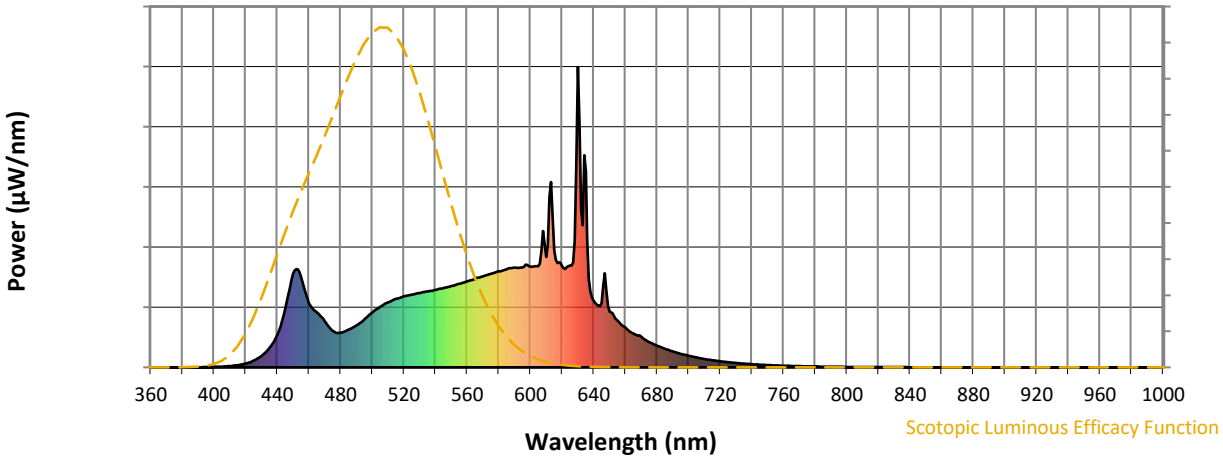


Photopic Lumens: NR

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

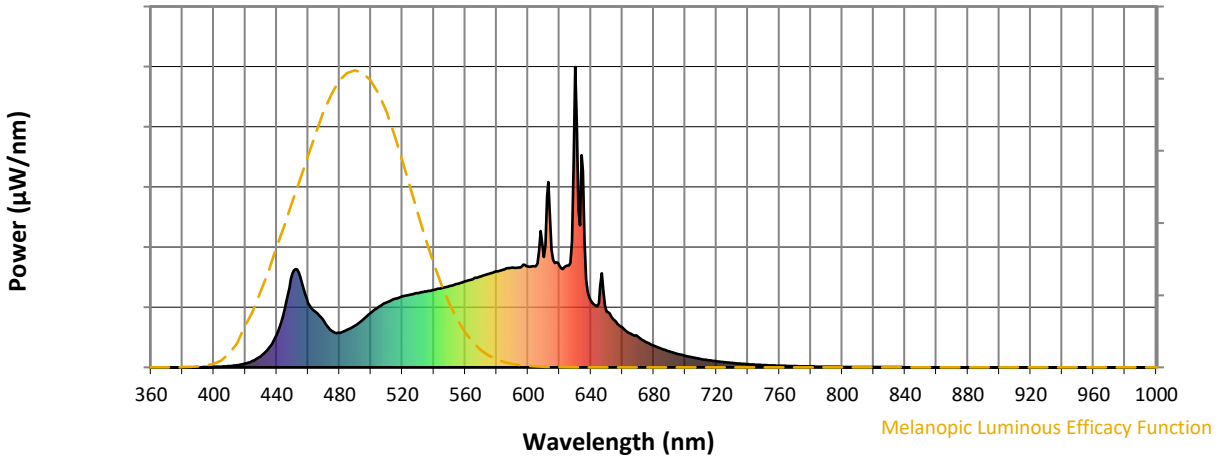


Scotopic Lumens: NR **S/P: 1.62**

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			

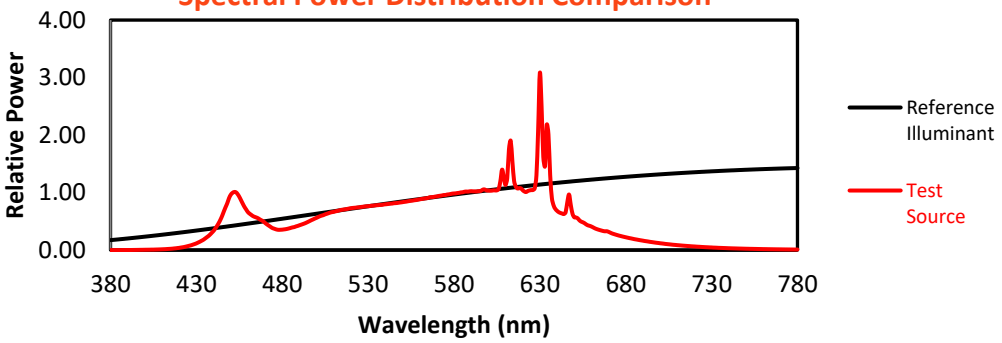
REPORT NUMBER: SP1-2506-472-6

TM-30-18

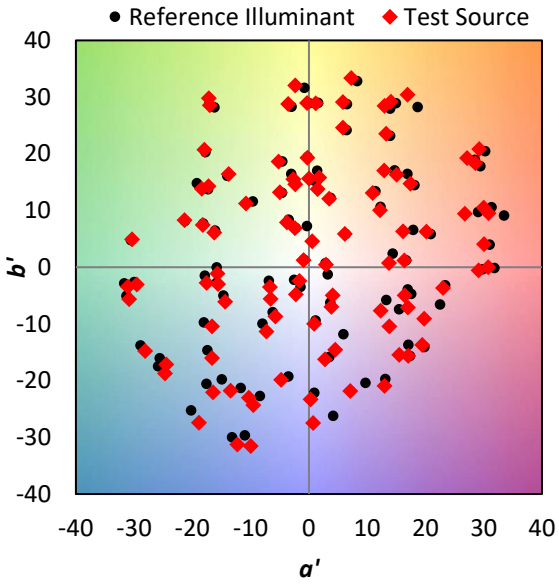
Summary

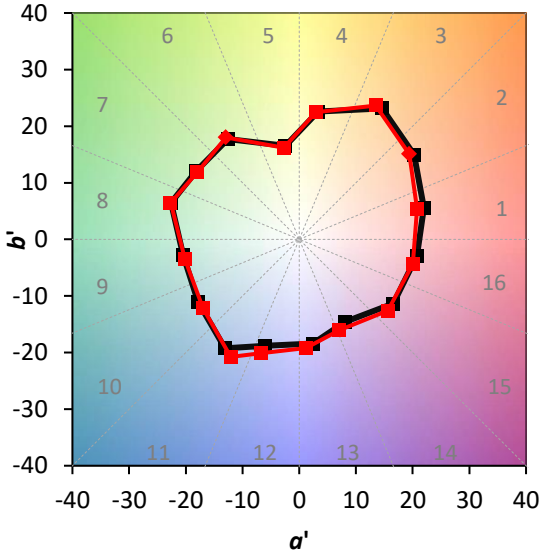
R_f = 91.3
R_g = 100
CIE R_a = 94.6
R_9 = 63.8

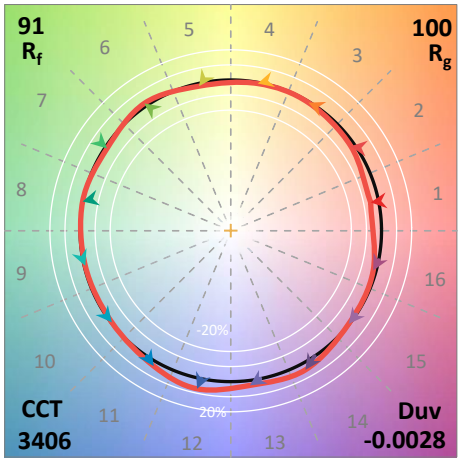
Spectral Power Distribution Comparison

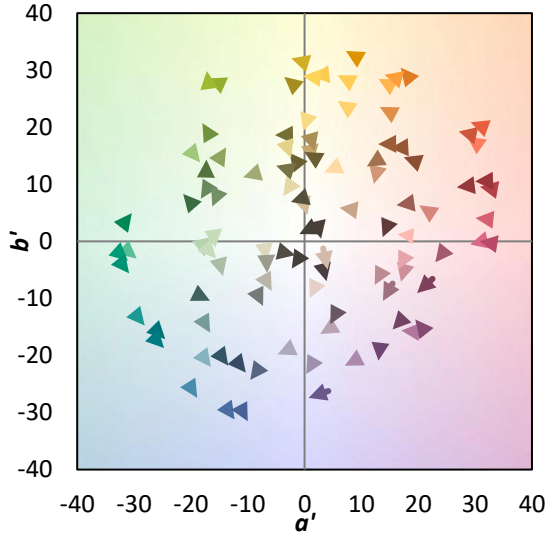


Color Vector Graphics







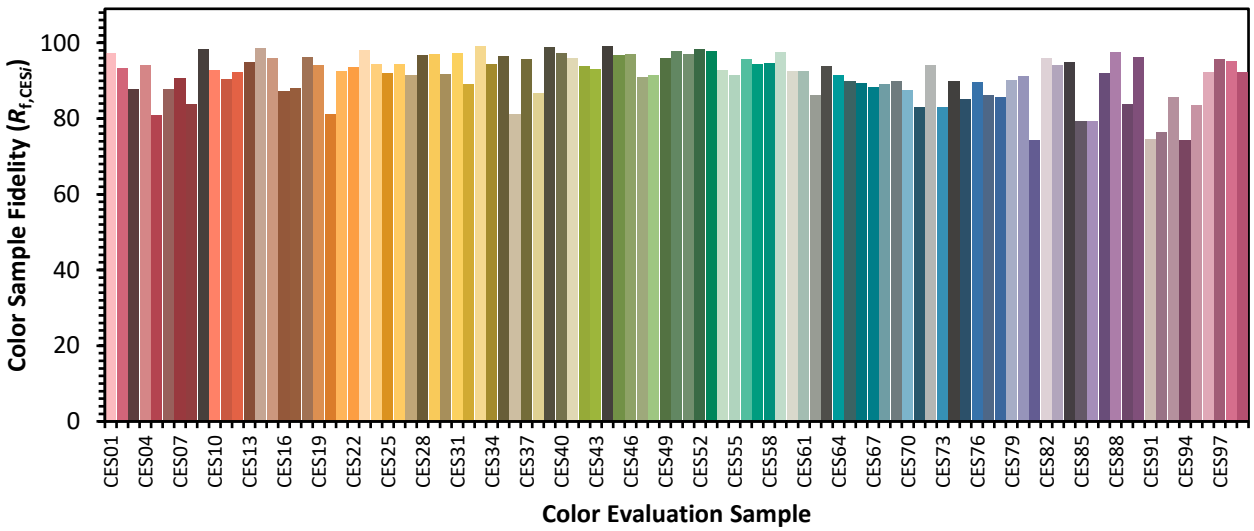


REPORT NUMBER: SP1-2506-472-6

TM-30-18

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

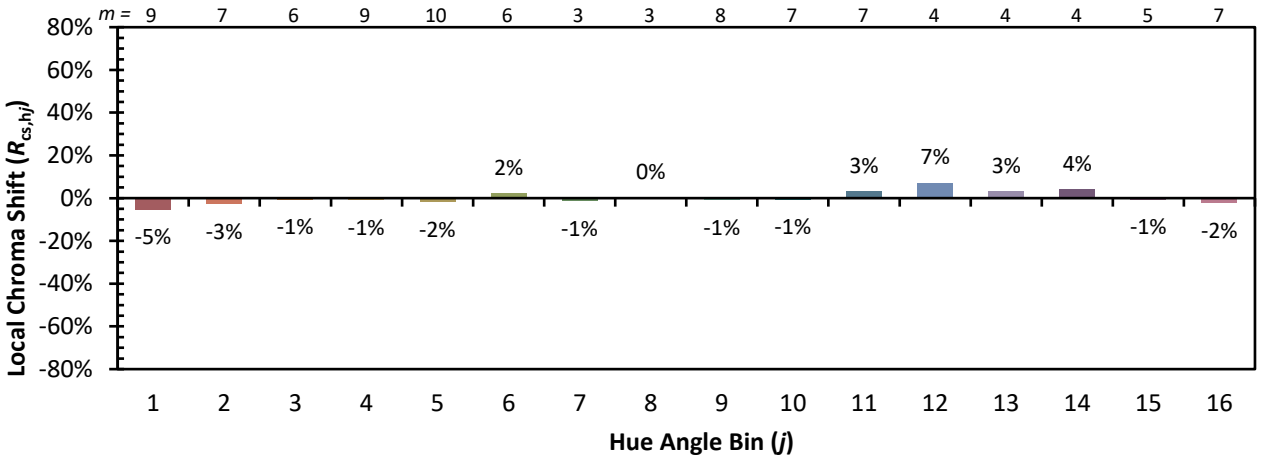
CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 90
CES02 = 63	CES27 = 92	CES52 = 98	CES77 = 86
CES03 = 31	CES28 = 97	CES53 = 98	CES78 = 86
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 90
CES05 = 50	CES30 = 92	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 74
CES07 = 43	CES32 = 89	CES57 = 94	CES82 = 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
CES25 = 71	CES50 = 98	CES75 = 85	

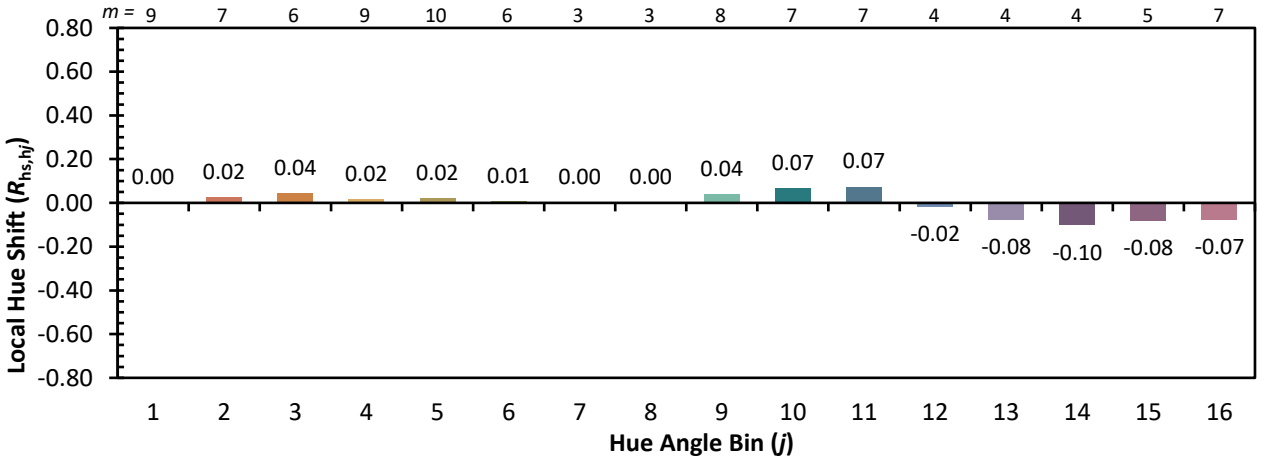


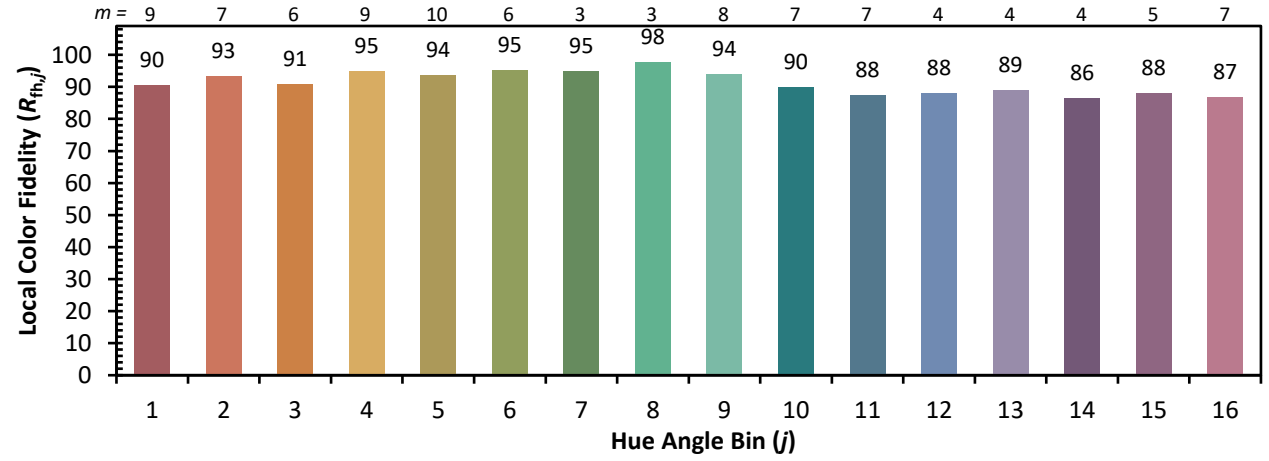
REPORT NUMBER: SP1-2506-472-6

TM-30-18

Color Rendition by Hue-Angle Bin



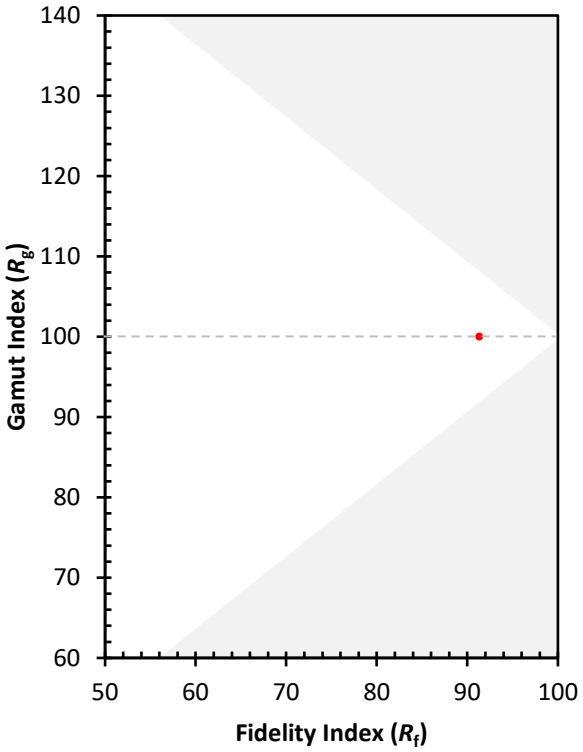


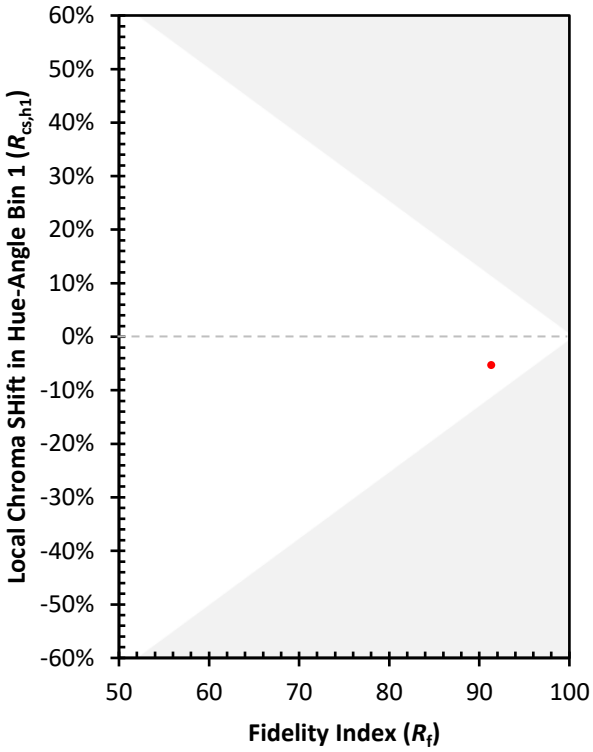


REPORT NUMBER: SP1-2506-472-6

TM-30-18

Measure Comparisons





(END OF REPORT)