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: P1433518

Luminaire Tested: EHBR1-30-UNV-TASM-L935-UPL24

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:	P1433518
	REPORT IS A COMBINATION OF REPORTS P1431743 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-30-UNV-TASM-L935-UPL24
Description:	Elevate Round Highbay at, 30000 lumens, 3500K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29832.7 lumens
Efficiency:	N/A
Efficacy:	169.2 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):	176.3
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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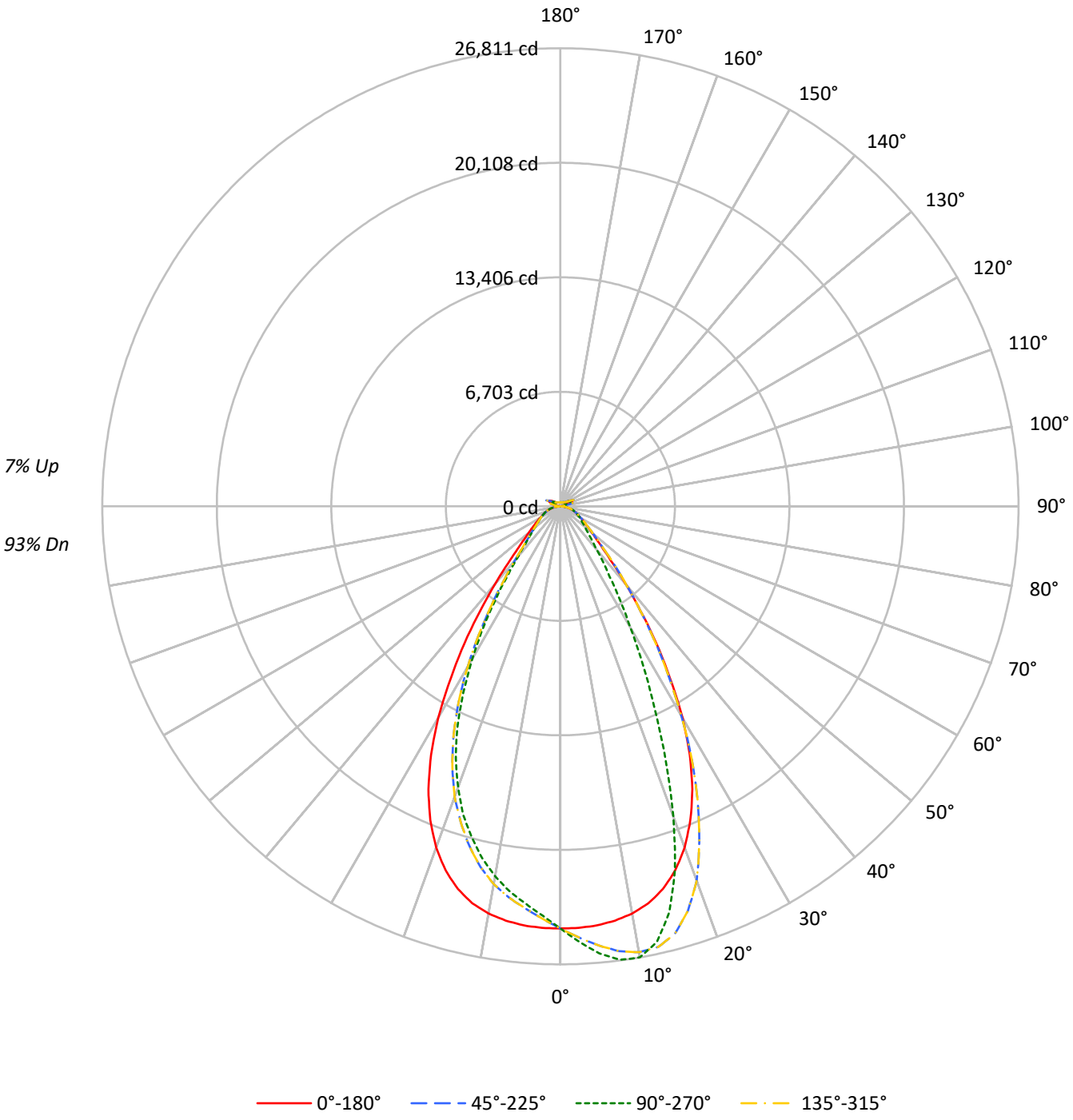
Luminous Intensity Polar Plot



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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	110	107	103	101	107	104	101	98	98	96	94	93	91	90	89	87	86	84
2	103	97	92	88	100	95	90	86	90	86	83	86	83	80	82	80	78	75
3	97	89	83	78	94	87	81	77	83	78	75	80	76	73	76	73	71	68
4	91	82	75	70	88	80	74	69	77	72	68	74	70	66	71	67	64	63
5	85	76	69	64	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	54	74	64	58	53	62	56	52	60	55	52	58	54	51	49
8	72	61	54	50	70	60	54	49	58	53	49	57	52	48	55	51	47	46
9	68	57	51	46	66	56	50	46	55	49	45	53	48	45	52	47	44	43
10	64	54	47	43	63	53	47	43	52	46	42	50	45	42	49	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	116033	116033	116033	116033
5°	115326	123032	115326	109342
10°	113909	126190	113909	103483
15°	110546	117270	110546	95590
20°	103388	94035	103388	85144
25°	91507	65153	91507	71354
30°	74300	42386	74300	53387
35°	53290	27450	53290	35541
40°	34454	18920	34454	22414
45°	21861	14656	21861	15970
50°	16234	12454	16234	13302
55°	13254	11345	13254	11743
60°	11478	10806	11478	10872
65°	10462	10423	10462	10378
70°	9916	10213	9916	10080
75°	9274	9879	9274	9582
80°	8147	9328	8147	8719
85°	5272	6657	5272	6349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 30735 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2349.4	7.9
10°-20°	6391.6	21.4
20°-30°	7496.1	25.1
30°-40°	5213.1	17.5
40°-50°	2590.6	8.7
50°-60°	1549.5	5.2
60°-70°	1090.6	3.7
70°-80°	702.5	2.4
80°-90°	227.0	0.8
90°-100°	59.3	0.2
100°-110°	385.9	1.3
110°-120°	712.7	2.4
120°-130°	423.8	1.4
130°-140°	256.6	0.9
140°-150°	177.8	0.6
150°-160°	116.4	0.4
160°-170°	67.2	0.2
170°-180°	22.4	0.1
0°-30°	16237.1	54.4
0°-40°	21450.2	71.9
0°-60°	25590.3	85.8
0°-90°	27610.4	92.6
90°-120°	1157.9	3.9
90°-150°	2016.2	6.8
90°-180°	2222.0	7.4
0°-180°	29832.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	24708	24708	24708	24708	24708	
5°	24624	26269	24624	23346	24624	2337
15°	23192	24603	23192	20054	23192	6481
25°	18274	13011	18274	14249	18274	8273
35°	9781	5038	9781	6523	9781	6106
45°	3537	2371	3537	2584	3537	2894
55°	1791	1533	1791	1587	1791	1638
65°	1092	1088	1092	1083	1092	1097
75°	653	696	653	675	653	686
85°	181	229	181	218	181	201
90°	16	20	16	16	16	16
95°	32	31	32	27	32	33
105°	177	91	177	134	177	239
115°	758	648	758	616	758	691
125°	486	509	486	445	486	447
135°	308	355	308	325	308	244
145°	279	291	279	271	279	175
155°	249	260	249	242	249	116
165°	236	243	236	231	236	67
175°	236	240	236	231	236	22
180°	235	235	235	235	235	

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TEST NUMBER: P1433518
CATALOG NUMBER: EHBR1-30-UNV-TASM-L935-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	24708.3	24708.3	24708.3	24708.3	*24708.3*	24708.3	24708.3	24708.3	24708.3	24708.3	24708.3
2.5°	24694.0	25013.2	25271.7	25442.2	*25526.5*	25442.2	25271.7	25013.2	24694.0	24376.6	24158.3
5°	24624.0	25263.4	25805.0	26159.4	*26269.2*	26159.4	25805.0	25263.4	24624.0	24019.8	23619.1
7.5°	24456.8	25452.8	26257.6	26671.4	*26772.4*	26671.4	26257.6	25452.8	24456.8	23601.5	23095.0
10°	*24201.5*	*25572.4*	*26502.3*	*26798.8*	*26810.9*	*26798.8*	*26502.3*	*25572.4*	*24201.5*	*23049.2*	*22452.0*
12.5°	23794.2	25529.8	26420.2	26323.0	*26101.9*	26323.0	26420.2	25529.8	23794.2	22374.6	21621.2
15°	23191.9	25277.3	25900.9	25109.1	*24602.7*	25109.1	25900.9	25277.3	23191.9	21463.7	20589.9
17.5°	22343.0	24804.7	24816.8	23250.3	*22294.9*	23250.3	24816.8	24804.7	22343.0	20349.9	19387.6
20°	21249.2	24046.7	23323.9	20458.8	*19326.9*	20458.8	23323.9	24046.7	21249.2	19033.1	18088.9
22.5°	19877.7	23024.6	21245.0	17650.6	*16106.3*	17650.6	21245.0	23024.6	19877.7	17501.9	16519.1
25°	18273.8	21772.2	19008.5	14590.8	*13010.9*	14590.8	19008.5	21772.2	18273.8	15677.3	14788.7
27.5°	16387.1	20185.0	16627.1	11923.0	*10465.5*	11923.0	16627.1	20185.0	16387.1	13793.4	12885.8
30°	14291.6	18150.1	14148.8	9495.3	*8153.0*	9495.3	14148.8	18150.1	14291.6	11677.0	10864.4
32.5°	11945.2	16155.4	11768.8	7608.2	*6471.2*	7608.2	11768.8	16155.4	11945.2	9657.4	8808.2
35°	9780.7	13660.0	9622.7	5978.2	*5038.1*	5978.2	9622.7	13660.0	9780.7	7750.8	6916.8
37.5°	7675.8	11302.2	7670.7	4813.9	*4086.5*	4813.9	7670.7	11302.2	7675.8	6025.9	5349.0
40°	5971.7	8837.4	6010.1	3842.7	*3279.4*	3842.7	6010.1	8837.4	5971.7	4585.0	4151.8
42.5°	4524.8	6757.5	4724.0	3153.8	*2785.5*	3153.8	4724.0	6757.5	4524.8	3612.5	3288.2
45°	3537.0	4972.8	3688.9	2660.8	*2371.2*	2660.8	3688.9	4972.8	3537.0	2909.1	2691.4
47.5°	2880.4	3843.2	2989.8	2282.3	*2079.4*	2282.3	2989.8	3843.2	2880.4	2460.7	2297.6
50°	2419.4	2949.0	2482.4	1992.3	*1856.1*	1992.3	2482.4	2949.0	2419.4	2107.2	1998.3
52.5°	2078.5	2405.1	2114.1	1775.4	*1683.7*	1775.4	2114.1	2405.1	2078.5	1843.6	1775.9
55°	1791.2	2021.9	1838.5	1596.6	*1533.1*	1596.6	1838.5	2021.9	1791.2	1640.6	1590.6
57.5°	1572.9	1715.2	1596.6	1444.1	*1402.0*	1444.1	1596.6	1715.2	1572.9	1459.9	1433.1
60°	1379.8	1485.4	1409.0	1311.2	*1299.1*	1311.2	1409.0	1485.4	1379.8	1313.5	1295.9
62.5°	1231.1	1297.8	1245.8	1191.6	*1181.0*	1191.6	1245.8	1297.8	1231.1	1180.0	1183.3
65°	1092.0	1154.1	1113.3	1084.2	*1087.9*	1084.2	1113.3	1154.1	1092.0	1068.4	1073.5
67.5°	984.5	1017.0	999.4	982.7	*986.9*	982.7	999.4	1017.0	984.5	961.3	969.2
70°	870.1	904.9	886.8	889.1	*896.1*	889.1	886.8	904.9	870.1	863.2	869.2
72.5°	760.8	787.6	781.6	787.1	*794.6*	787.1	781.6	787.6	760.8	759.9	760.3
75°	653.3	673.7	676.5	684.3	*695.9*	684.3	676.5	673.7	653.3	646.3	654.6
77.5°	536.1	559.2	568.0	578.7	*595.8*	578.7	568.0	559.2	536.1	540.7	544.9
80°	428.6	439.2	458.7	466.6	*490.7*	466.6	458.7	439.2	428.6	420.7	426.7
82.5°	313.7	323.4	340.1	354.9	*368.8*	354.9	340.1	323.4	313.7	310.0	310.4
85°	181.2	195.9	207.1	224.7	*228.8*	224.7	207.1	195.9	181.2	185.3	181.2
87.5°	63.4	68.1	77.9	84.8	*85.3*	84.8	77.9	68.1	63.4	64.9	58.8
90°	16.4	27.8	47.9	27.3	*19.7*	27.3	47.9	27.8	16.4	28.6	44.6
92.5°	21.3	37.6	67.5	35.9	*25.7*	35.9	67.5	37.6	21.3	37.2	71.5
95°	31.5	46.2	85.9	39.5	*30.6*	39.5	85.9	46.2	31.5	49.5	99.7
97.5°	48.7	57.3	96.9	42.1	*36.8*	42.1	96.9	57.3	48.7	60.5	114.4
100°	64.6	64.6	176.6	48.1	*41.7*	48.1	176.6	64.6	64.6	74.4	178.1
102.5°	97.7	126.3	408.5	95.2	*50.3*	95.2	408.5	126.3	97.7	139.3	377.8
105°	177.3	288.0	718.4	243.3	*91.2*	243.3	718.4	288.0	177.3	291.2	673.0
107.5°	335.3	536.6	925.5	478.5	*210.0*	478.5	925.5	536.6	335.3	515.4	887.8
110°	536.2	749.8	1009.9	654.9	*423.1*	654.9	1009.9	749.8	536.2	707.8	930.6

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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°	697.9	835.5	986.7	726.0	*584.8*	726.0	986.7	835.5	697.9	781.2	891.5
115°	758.4	823.3	881.3	723.5	*648.5*	723.5	881.3	823.3	758.4	762.9	795.9
117.5°	732.7	753.5	761.3	679.5	*652.2*	679.5	761.3	753.5	732.7	686.1	675.9
120°	661.6	653.0	641.8	614.5	*615.4*	614.5	641.8	653.0	661.6	599.2	564.4
122.5°	572.6	554.3	542.5	548.8	*565.2*	548.8	542.5	554.3	572.6	510.2	484.0
125°	485.7	467.3	473.2	492.5	*509.3*	492.5	473.2	467.3	485.7	433.6	426.9
127.5°	412.7	404.1	423.0	444.7	*459.1*	444.7	423.0	404.1	412.7	379.7	386.5
130°	360.5	362.5	387.5	405.9	*415.0*	405.9	387.5	362.5	360.5	344.6	361.3
132.5°	327.9	337.2	361.0	377.0	*382.4*	377.0	361.0	337.2	327.9	323.5	343.8
135°	307.5	321.3	343.0	353.3	*355.4*	353.3	343.0	321.3	307.5	309.1	327.9
137.5°	295.7	309.5	325.9	334.2	*332.2*	334.2	325.9	309.5	295.7	299.8	314.0
140°	288.8	302.6	310.0	319.5	*317.8*	319.5	310.0	302.6	288.8	291.3	302.3
142.5°	282.0	294.5	298.2	305.2	*303.2*	305.2	298.2	294.5	282.0	284.4	291.7
145°	278.7	288.0	285.1	294.2	*291.4*	294.2	285.1	288.0	278.7	279.5	283.6
147.5°	272.5	279.5	275.8	283.6	*281.0*	283.6	275.8	279.5	272.5	272.5	274.3
150°	265.6	270.5	265.2	274.3	*274.0*	274.3	265.2	270.5	265.6	264.5	266.2
152.5°	256.4	261.3	256.4	266.6	*265.9*	266.6	256.4	261.3	256.4	255.2	256.9
155°	248.8	251.2	248.8	259.0	*259.5*	259.0	248.8	251.2	248.8	248.3	249.2
157.5°	243.5	245.3	244.0	253.0	*253.5*	253.0	244.0	245.3	243.5	243.5	244.0
160°	239.2	241.6	241.0	248.8	*249.2*	248.8	241.0	241.6	239.2	240.0	240.4
162.5°	237.7	237.7	237.5	245.3	*246.2*	245.3	237.5	237.7	237.7	237.7	239.0
165°	235.5	236.6	235.1	240.9	*243.2*	240.9	235.1	236.6	235.5	236.2	236.2
167.5°	235.1	233.9	234.8	239.9	*242.1*	239.9	234.8	233.9	235.1	235.9	235.9
170°	233.1	233.6	233.4	238.4	*240.5*	238.4	233.4	233.6	233.1	234.4	235.1
172.5°	234.6	234.6	233.5	237.3	*240.7*	237.3	233.5	234.6	234.6	235.4	236.6
175°	235.5	234.7	234.4	237.1	*240.4*	237.1	234.4	234.7	235.5	235.0	235.0
177.5°	234.3	235.2	236.1	238.7	*243.3*	238.7	236.1	235.2	234.3	235.0	235.0
180°	235.2	235.2	235.2	235.2	*235.2*	235.2	235.2	235.2	235.2	235.2	235.2

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	24708.3	24708.3	24708.3	24708.3	24708.3	24708.3
2.5°	23990.6	23974.9	23990.6	24158.3	24376.6	24694.0
5°	23433.3	23346.2	23433.3	23619.1	24019.8	24624.0
7.5°	22784.1	22733.7	22784.1	23095.0	23601.5	24456.8
10°	*22100.8*	*21986.3*	*22100.8*	*22452.0*	*23049.2*	*24201.5*
12.5°	21258.4	21107.0	21258.4	21621.2	22374.6	23794.2
15°	20187.2	20054.3	20187.2	20589.9	21463.7	23191.9
17.5°	19037.7	18917.3	19037.7	19387.6	20349.9	22343.0
20°	17594.0	17499.5	17594.0	18088.9	19033.1	21249.2
22.5°	16079.5	15991.0	16079.5	16519.1	17501.9	19877.7
25°	14297.5	14249.3	14297.5	14788.7	15677.3	18273.8
27.5°	12372.0	12290.0	12372.0	12885.8	13793.4	16387.1
30°	10404.8	10269.0	10404.8	10864.4	11677.0	14291.6
32.5°	8480.6	8382.8	8480.6	8808.2	9657.4	11945.2
35°	6620.8	6523.0	6620.8	6916.8	7750.8	9780.7
37.5°	5159.0	4986.3	5159.0	5349.0	6025.9	7675.8
40°	3912.7	3884.9	3912.7	4151.8	4585.0	5971.7
42.5°	3185.3	3109.8	3185.3	3288.2	3612.5	4524.8
45°	2613.6	2583.9	2613.6	2691.4	2909.1	3537.0
47.5°	2247.5	2260.6	2247.5	2297.6	2460.7	2880.4
50°	1974.6	1982.5	1974.6	1998.3	2107.2	2419.4
52.5°	1773.6	1766.6	1773.6	1775.9	1843.6	2078.5
55°	1595.7	1586.9	1595.7	1590.6	1640.6	1791.2
57.5°	1440.0	1446.5	1440.0	1433.1	1459.9	1572.9
60°	1301.0	1307.0	1301.0	1295.9	1313.5	1379.8
62.5°	1183.8	1187.5	1183.8	1183.3	1180.0	1231.1
65°	1079.1	1083.2	1079.1	1073.5	1068.4	1092.0
67.5°	979.0	979.0	979.0	969.2	961.3	984.5
70°	884.9	884.5	884.9	869.2	863.2	870.1
72.5°	771.9	783.0	771.9	760.3	759.9	760.8
75°	662.1	675.0	662.1	654.6	646.3	653.3
77.5°	550.9	570.8	550.9	544.9	540.7	536.1
80°	436.9	458.7	436.9	426.7	420.7	428.6
82.5°	322.9	339.1	322.9	310.4	310.0	313.7
85°	192.2	218.2	192.2	181.2	185.3	181.2
87.5°	61.6	78.8	61.6	58.8	64.9	63.4
90°	26.2	16.4	26.2	44.6	28.6	16.4
92.5°	39.7	23.7	39.7	71.5	37.2	21.3
95°	45.8	27.4	45.8	99.7	49.5	31.5
97.5°	50.7	35.2	50.7	114.4	60.5	48.7
100°	59.3	46.2	59.3	178.1	74.4	64.6
102.5°	125.4	78.0	125.4	377.8	139.3	97.7
105°	263.8	134.4	263.8	673.0	291.2	177.3
107.5°	472.1	232.4	472.1	887.8	515.4	335.3
110°	626.4	433.3	626.4	930.6	707.8	536.2

TEST NUMBER: P1433518
CATALOG NUMBER: EHBR1-30-UNV-TASM-L935-UPL24

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	673.0	585.2	673.0	891.5	781.2	697.9
115°	647.2	615.9	647.2	795.9	762.9	758.4
117.5°	590.9	595.0	590.9	675.9	686.1	732.7
120°	525.9	551.0	525.9	564.4	599.2	661.6
122.5°	466.4	495.8	466.4	484.0	510.2	572.6
125°	414.9	444.8	414.9	426.9	433.6	485.7
127.5°	379.4	399.5	379.4	386.5	379.7	412.7
130°	351.7	368.9	351.7	361.3	344.6	360.5
132.5°	332.5	343.6	332.5	343.8	323.5	327.9
135°	315.9	325.2	315.9	327.9	309.1	307.5
137.5°	301.7	309.8	301.7	314.0	299.8	295.7
140°	289.1	296.0	289.1	302.3	291.3	288.8
142.5°	276.1	281.1	276.1	291.7	284.4	282.0
145°	267.2	270.9	267.2	283.6	279.5	278.7
147.5°	259.6	262.0	259.6	274.3	272.5	272.5
150°	252.0	254.4	252.0	266.2	264.5	265.6
152.5°	243.9	246.8	243.9	256.9	255.2	256.4
155°	238.6	241.5	238.6	249.2	248.3	248.8
157.5°	235.8	238.0	235.8	244.0	243.5	243.5
160°	233.7	235.3	233.7	240.4	240.0	239.2
162.5°	230.8	232.6	230.8	239.0	237.7	237.7
165°	230.6	231.0	230.6	236.2	236.2	235.5
167.5°	229.8	231.0	229.8	235.9	235.9	235.1
170°	230.2	230.7	230.2	235.1	234.4	233.1
172.5°	231.1	231.7	231.1	236.6	235.4	234.6
175°	230.9	231.4	230.9	235.0	235.0	235.5
177.5°	232.6	233.0	232.6	235.0	235.0	234.3
180°	235.2	235.2	235.2	235.2	235.2	235.2

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

Scaled Data Report

TEST NUMBER: P1433518
CATALOG NUMBER: EHBR1-30-UNV-TASM-L935-UPL24

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	17.09	18.19	17.59	18.66	19.16	16.41	17.51	16.91	17.97	18.48
	3H	18.64	19.61	19.15	20.10	20.65	18.26	19.23	18.77	19.72	20.26
	4H	19.28	20.19	19.81	20.69	21.25	19.04	19.95	19.57	20.45	21.01
	6H	19.76	20.59	20.30	21.11	21.68	19.68	20.52	20.23	21.03	21.61
	8H	19.91	20.70	20.47	21.23	21.82	19.90	20.70	20.46	21.23	21.81
	12H	19.98	20.74	20.54	21.26	21.87	20.03	20.79	20.59	21.31	21.92
4H	2H	17.51	18.42	18.04	18.92	19.48	16.99	17.90	17.52	18.39	18.96
	3H	19.30	20.06	19.85	20.60	21.18	19.04	19.79	19.59	20.34	20.92
	4H	20.08	20.75	20.64	21.31	21.93	19.95	20.63	20.51	21.18	21.80
	6H	20.69	21.28	21.28	21.86	22.49	20.72	21.30	21.31	21.88	22.52
	8H	20.89	21.43	21.48	22.01	22.65	20.99	21.54	21.58	22.11	22.76
	12H	20.99	21.47	21.60	22.08	22.73	21.16	21.64	21.77	22.25	22.90
8H	4H	20.33	20.87	20.92	21.45	22.09	20.23	20.77	20.82	21.35	21.99
	6H	21.07	21.51	21.69	22.14	22.79	21.13	21.57	21.76	22.20	22.85
	8H	21.34	21.73	21.98	22.37	23.03	21.49	21.88	22.13	22.52	23.18
	12H	21.51	21.86	22.15	22.48	23.21	21.74	22.08	22.37	22.70	23.44
12H	4H	20.34	20.82	20.95	21.43	22.07	20.24	20.72	20.85	21.33	21.98
	6H	21.11	21.51	21.75	22.14	22.81	21.18	21.57	21.82	22.21	22.87
	8H	21.43	21.77	22.07	22.39	23.13	21.58	21.93	22.22	22.55	23.28

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

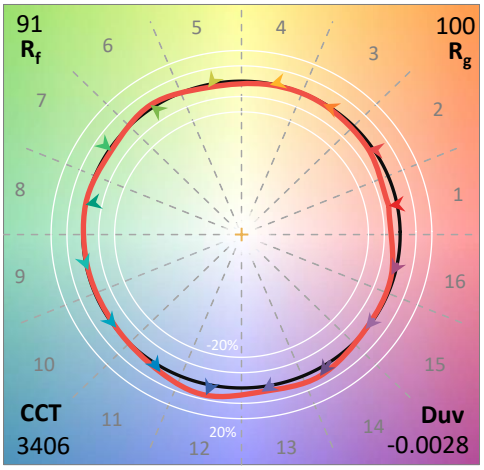
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

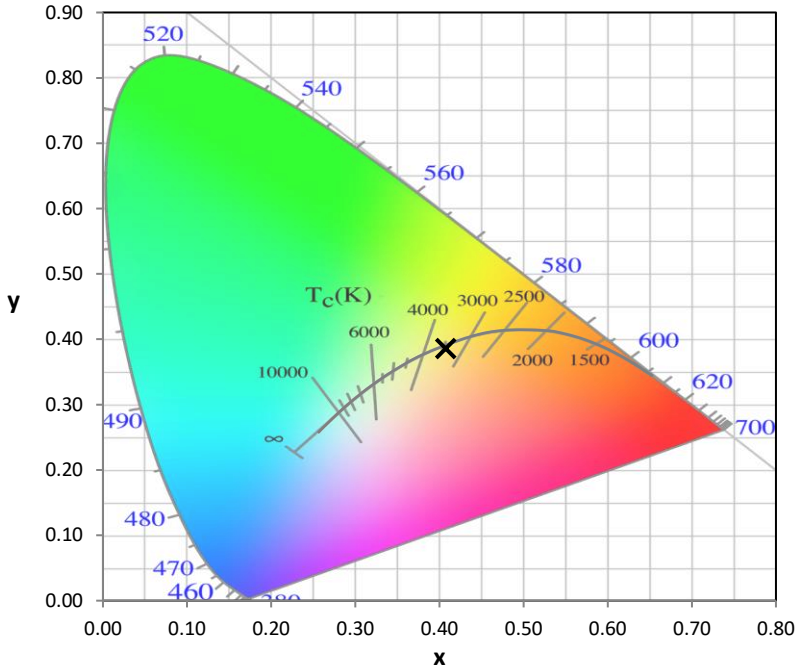
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-6

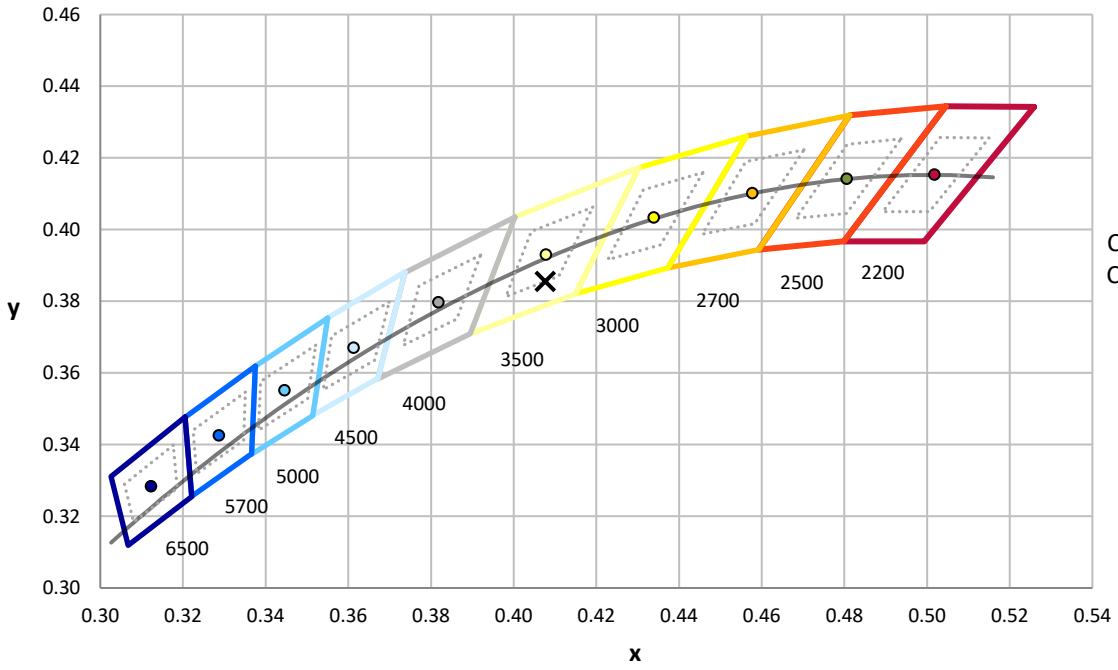
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

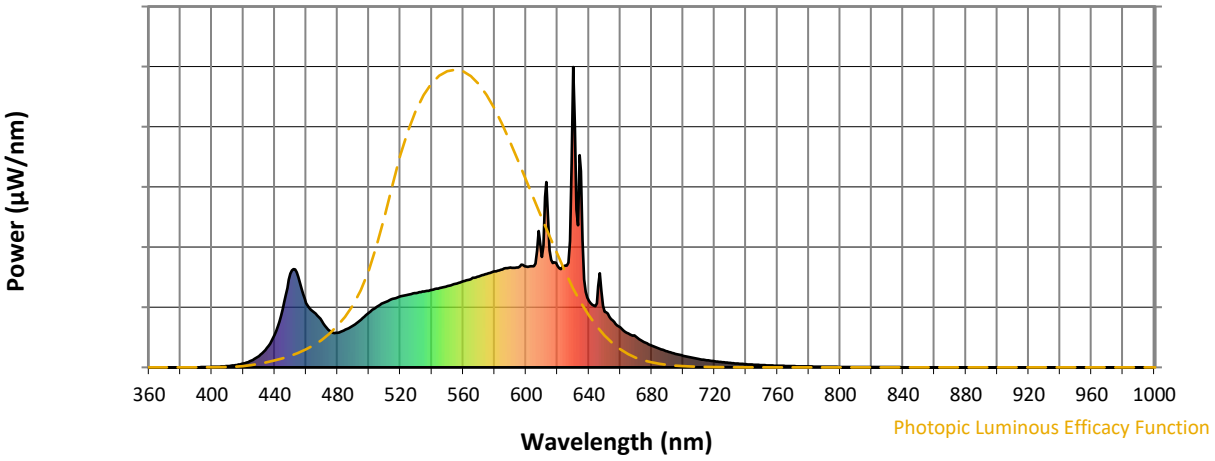


CCT = 3406K
CIE x = 0.4076
CIE y = 0.3856
Duv = -0.0028

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

Photopic Flux vs. Wavelength

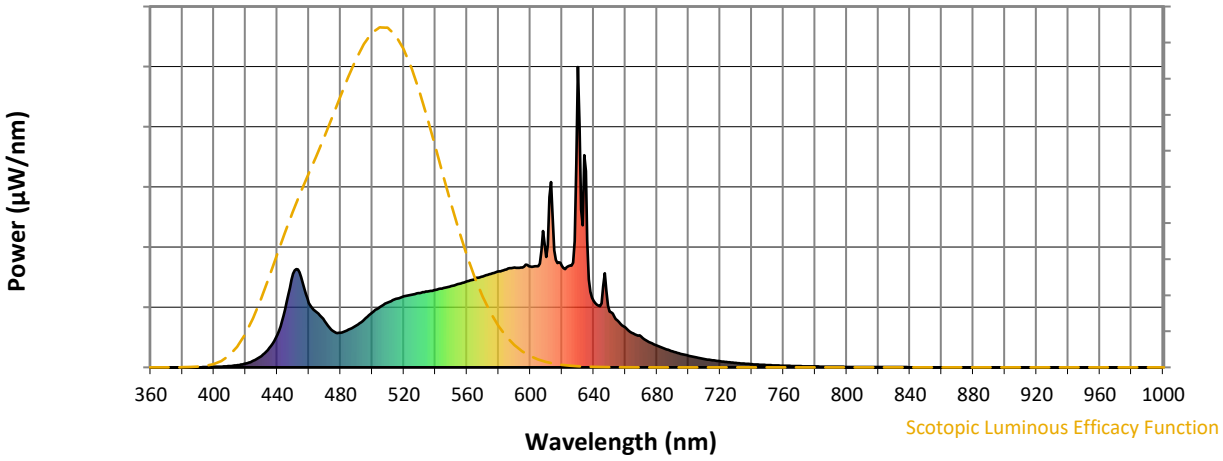


Photopic Lumens: NR

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

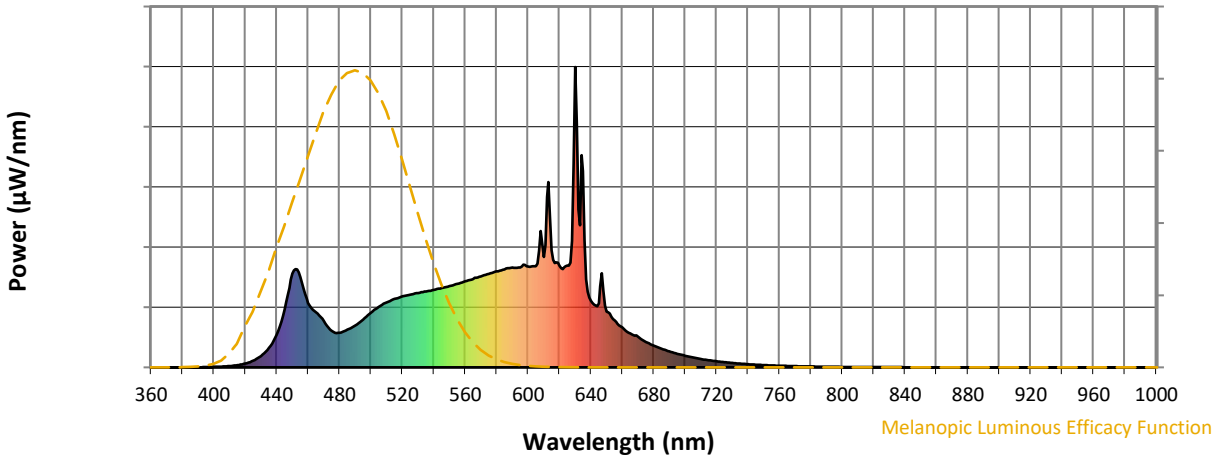


Scotopic Lumens: NR **S/P: 1.62**

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			

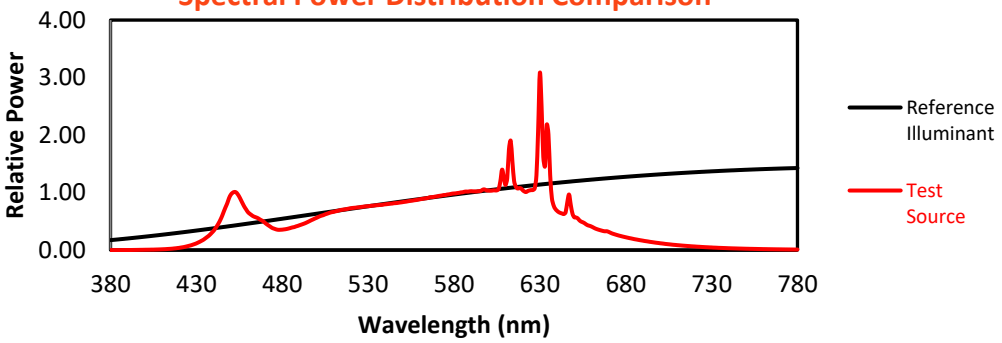
REPORT NUMBER: SP1-2506-472-6

TM-30-18

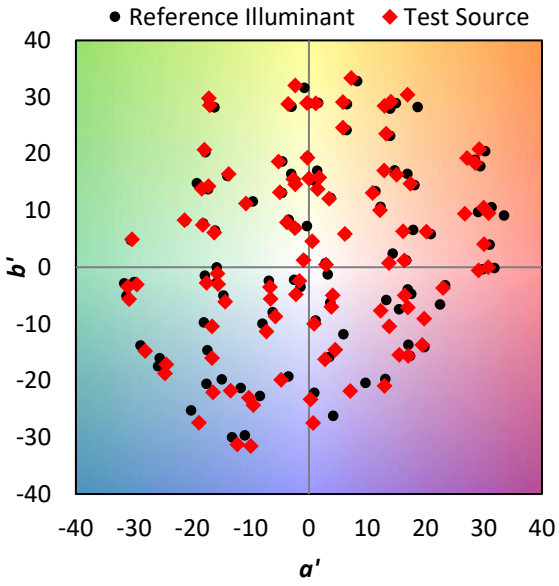
Summary

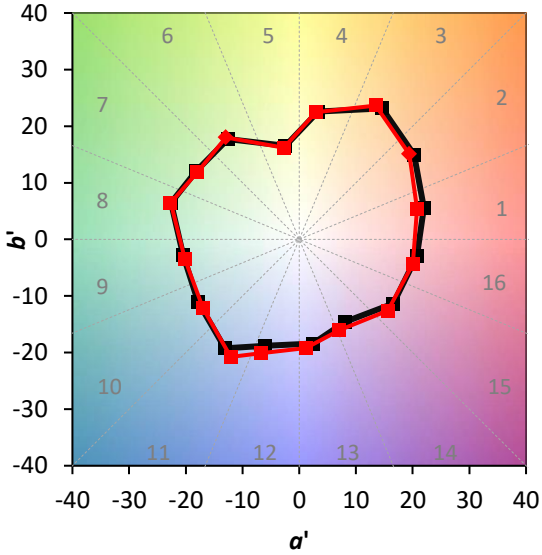
R_f = 91.3
R_g = 100
CIE R_a = 94.6
R_9 = 63.8

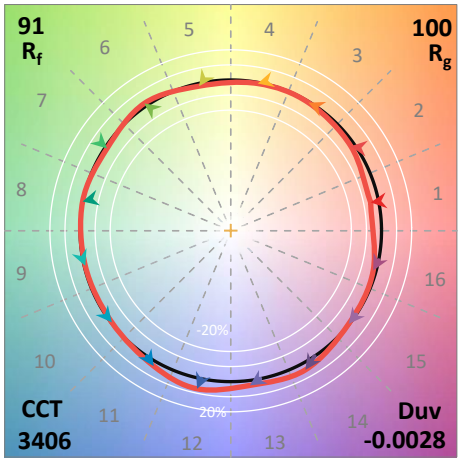
Spectral Power Distribution Comparison

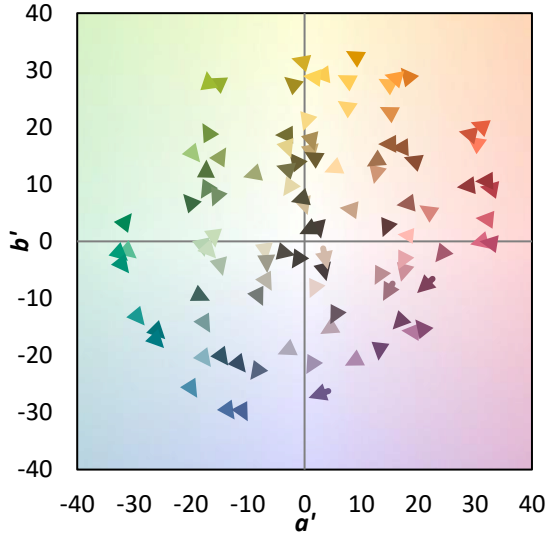


Color Vector Graphics







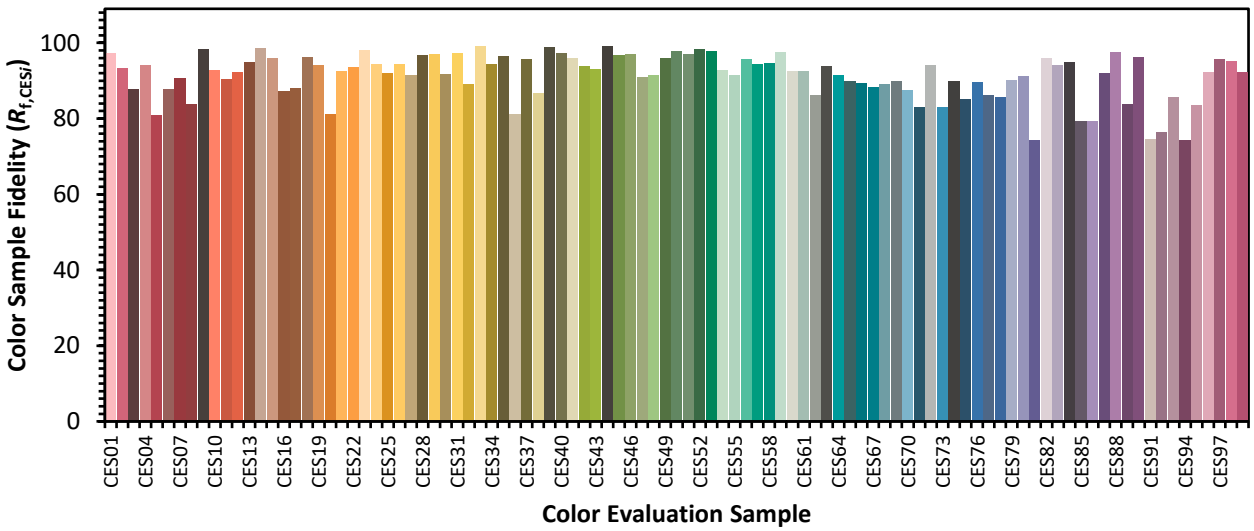


REPORT NUMBER: SP1-2506-472-6

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	



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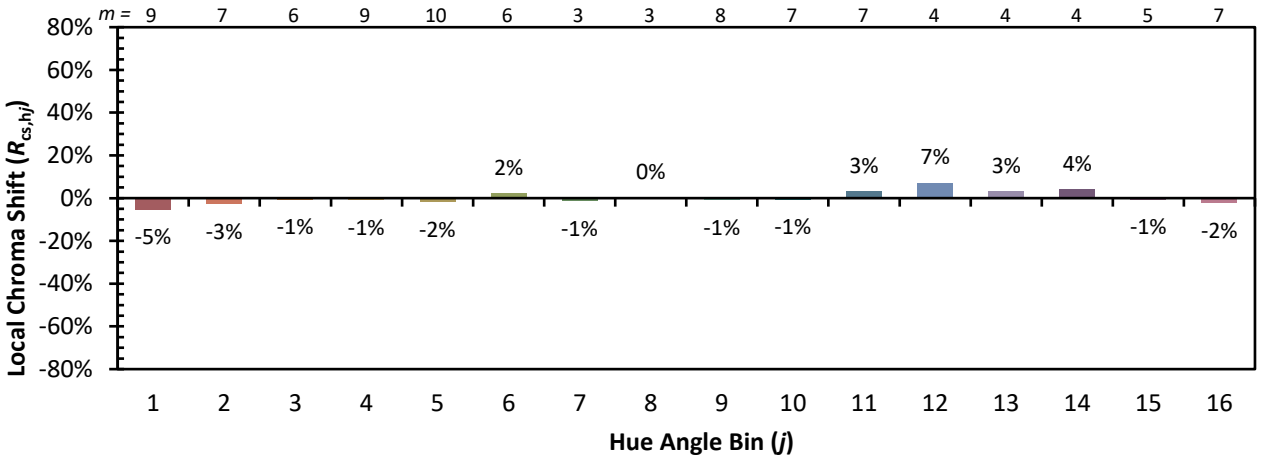
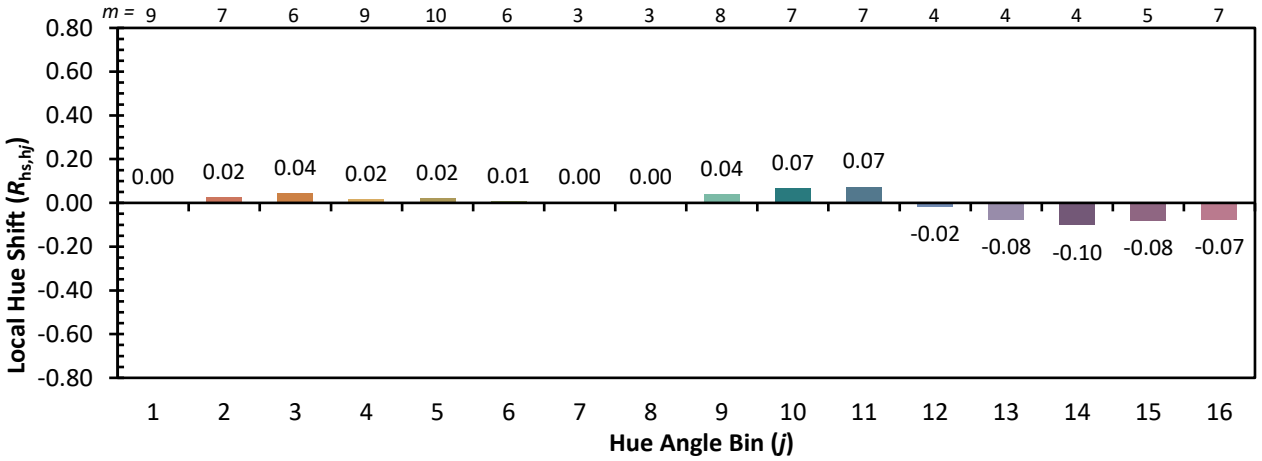
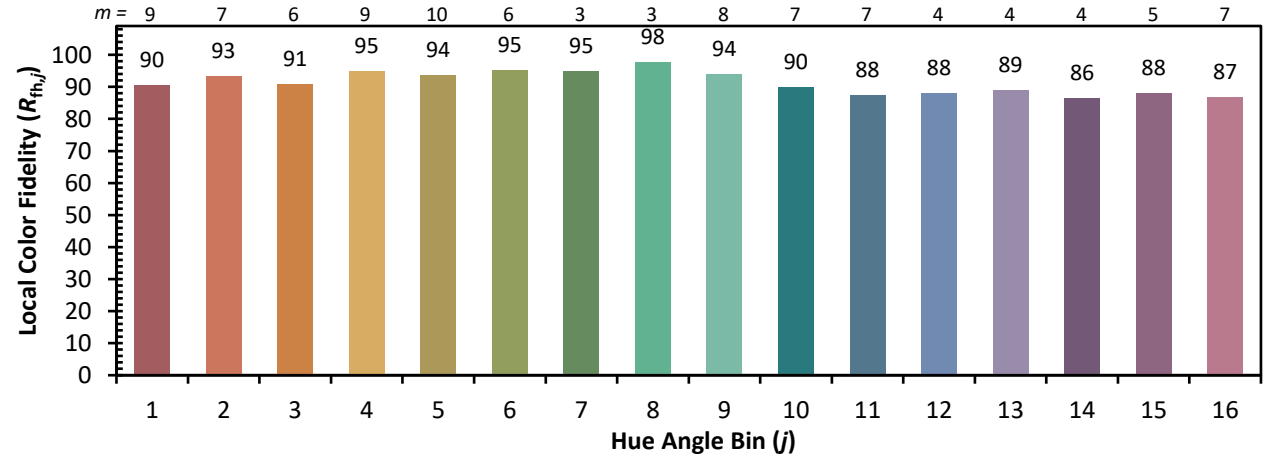
Color Rendition by Hue-Angle Bin







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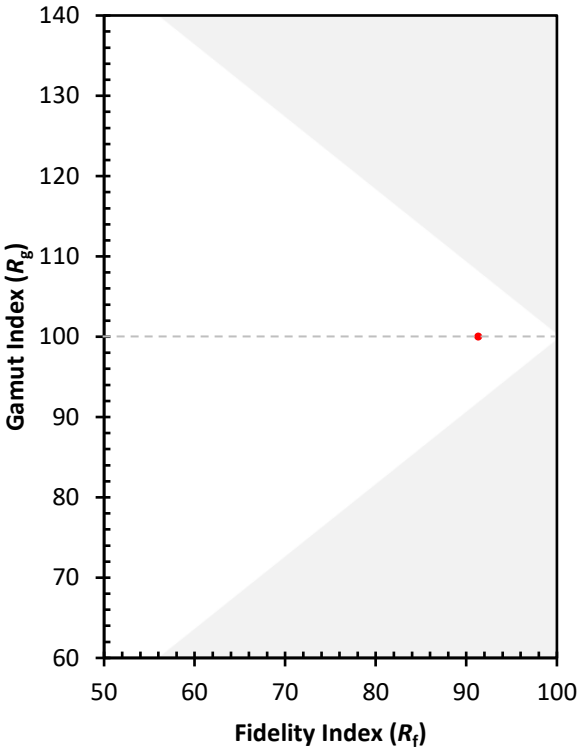
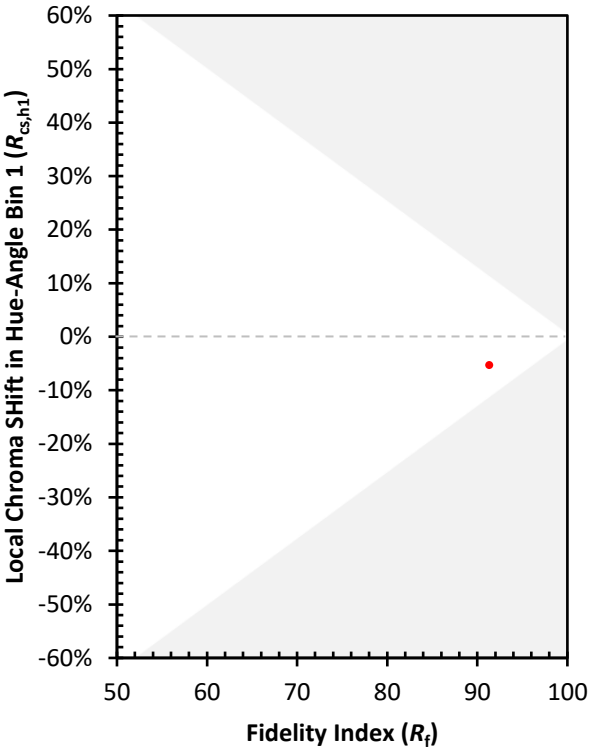
Measure Comparisons





(END OF REPORT)