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: P1433187

Luminaire Tested: EHBR1-30-UNV-TASM-L930-UPL15

Issue Date: 3/20/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1433187
	REPORT IS A COMBINATION OF REPORTS P1431741 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-30-UNV-TASM-L930-UPL15
Description:	Elevate Round Highbay at, 30000 lumens, 3000K 90CRI LEDs with TASM lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28490.6 lumens
Efficiency:	N/A
Efficacy:	168.5 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):	169.1
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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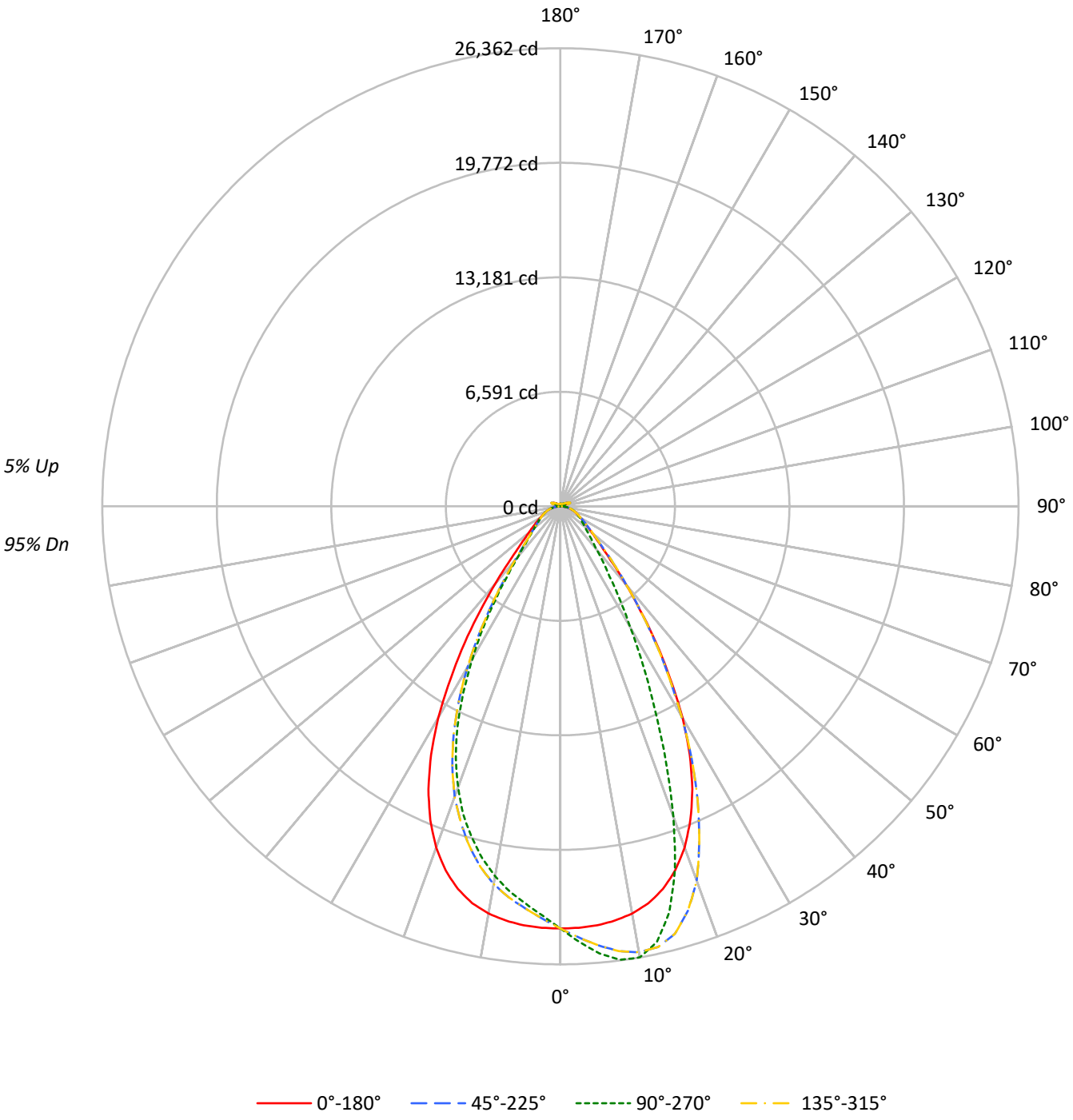
Luminous Intensity Polar Plot



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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	108	108	108	103	103	103	98	98	98	95
1	111	107	104	101	108	105	102	99	100	97	95	95	93	92	91	90	88	86
2	104	98	93	89	101	96	91	87	92	88	85	88	85	82	84	82	80	78
3	97	90	84	79	95	88	82	78	84	80	76	81	77	74	78	75	72	70
4	91	82	76	71	89	81	75	70	78	73	69	75	71	68	73	69	66	64
5	86	76	69	64	84	75	69	64	73	67	63	70	66	62	68	64	61	59
6	81	71	64	59	79	70	63	59	68	62	58	66	61	57	64	60	56	55
7	77	66	59	54	75	65	59	54	63	58	53	62	57	53	60	56	52	51
8	72	62	55	50	71	61	55	50	59	54	50	58	53	49	57	52	49	47
9	69	58	51	47	67	57	51	47	56	50	46	55	49	46	53	49	45	44
10	65	54	48	44	64	54	48	44	53	47	43	52	46	43	50	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	114088	114088	114088	114088
5°	113393	120970	113393	107509
10°	111999	124075	111999	101748
15°	108693	115305	108693	93988
20°	101655	92458	101655	83717
25°	89973	64060	89973	70158
30°	73055	41676	73055	52492
35°	52397	26990	52397	34945
40°	33876	18603	33876	22038
45°	21494	14410	21494	15703
50°	15962	12245	15962	13079
55°	13032	11155	13032	11546
60°	11286	10626	11286	10690
65°	10287	10247	10287	10204
70°	9750	10042	9750	9912
75°	9118	9713	9118	9422
80°	8010	9172	8010	8573
85°	5182	6546	5182	6244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 30220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2310.0	8.1
10°-20°	6284.5	22.1
20°-30°	7370.5	25.9
30°-40°	5125.7	18.0
40°-50°	2547.2	8.9
50°-60°	1523.5	5.3
60°-70°	1072.3	3.8
70°-80°	690.8	2.4
80°-90°	221.7	0.8
90°-100°	36.2	0.1
100°-110°	232.6	0.8
110°-120°	429.2	1.5
120°-130°	255.6	0.9
130°-140°	155.4	0.5
140°-150°	108.2	0.4
150°-160°	71.4	0.3
160°-170°	41.8	0.1
170°-180°	14.1	0.0
0°-30°	15965.0	56.0
0°-40°	21090.7	74.0
0°-60°	25161.4	88.3
0°-90°	27146.2	95.3
90°-120°	698.0	2.4
90°-150°	1217.1	4.3
90°-180°	1344.0	4.7
0°-180°	28490.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	24294	24294	24294	24294	24294	
5°	24211	25829	24211	22955	24211	2298
15°	22803	24190	22803	19718	22803	6373
25°	17968	12793	17968	14010	17968	8134
35°	9617	4954	9617	6414	9617	6003
45°	3478	2332	3478	2541	3478	2846
55°	1761	1508	1761	1560	1761	1611
65°	1074	1070	1074	1065	1074	1078
75°	642	684	642	664	642	674
85°	178	225	178	215	178	198
90°	10	13	10	10	10	13
95°	19	20	19	17	19	20
105°	107	56	107	81	107	144
115°	456	392	456	371	456	416
125°	293	308	293	268	293	270
135°	186	216	186	196	186	148
145°	170	178	170	165	170	106
155°	152	159	152	149	152	71
165°	146	152	146	144	146	42
175°	148	152	148	145	148	14
180°	148	148	148	148	148	

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Scaled Data Report

TEST NUMBER: P1433187
CATALOG NUMBER: EHBR1-30-UNV-TASM-L930-UPL15

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	24294.2	24294.2	24294.2	24294.2	24294.2	24294.2	24294.2	24294.2	24294.2	24294.2	24294.2
2.5°	24280.1	24593.9	24848.2	25015.8	25098.7	25015.8	24848.2	24593.9	24280.1	23968.0	23753.4
5°	24211.3	24840.0	25372.5	25721.0	25829.0	25721.0	25372.5	24840.0	24211.3	23617.3	23223.2
7.5°	24046.9	25026.2	25817.6	26224.4	26323.7	26224.4	25817.6	25026.2	24046.9	23205.9	22707.9
10°	23795.8	25143.8	26058.1	26349.7	26361.5	26349.7	26058.1	25143.8	23795.8	22662.8	22075.7
12.5°	23395.4	25101.9	25977.4	25881.8	25664.5	25881.8	25977.4	25101.9	23395.4	21999.6	21258.9
15°	22803.2	24853.6	25466.8	24688.2	24190.4	24688.2	25466.8	24853.6	22803.2	21104.0	20244.8
17.5°	21968.6	24389.0	24400.8	22860.6	21921.2	22860.6	24400.8	24389.0	21968.6	20008.9	19062.6
20°	20893.0	23643.6	22933.0	20115.9	19002.9	20115.9	22933.0	23643.6	20893.0	18714.1	17785.7
22.5°	19544.6	22638.7	20888.9	17354.8	15836.4	17354.8	20888.9	22638.7	19544.6	17208.5	16242.3
25°	17967.5	21407.3	18690.0	14346.3	12792.8	14346.3	18690.0	21407.3	17967.5	15414.6	14540.8
27.5°	16112.4	19846.7	16348.4	11723.2	10290.1	11723.2	16348.4	19846.7	16112.4	13562.3	12669.9
30°	14052.0	17845.9	13911.7	9336.1	8016.3	9336.1	13911.7	17845.9	14052.0	11481.3	10682.3
32.5°	11745.0	15884.7	11571.5	7480.7	6362.7	7480.7	11571.5	15884.7	11745.0	9495.5	8660.5
35°	9616.7	13431.1	9461.4	5878.0	4953.7	5878.0	9461.4	13431.1	9616.7	7620.9	6800.9
37.5°	7547.2	11112.8	7542.2	4733.2	4018.0	4733.2	7542.2	11112.8	7547.2	5924.9	5259.3
40°	5871.6	8689.2	5909.4	3778.3	3224.4	3778.3	5909.4	8689.2	5871.6	4508.2	4082.2
42.5°	4448.9	6644.3	4644.8	3101.0	2738.8	3101.0	4644.8	6644.3	4448.9	3551.9	3233.1
45°	3477.7	4889.4	3627.1	2616.2	2331.5	2616.2	3627.1	4889.4	3477.7	2860.4	2646.3
47.5°	2832.1	3778.8	2939.7	2244.1	2044.5	2244.1	2939.7	3778.8	2832.1	2419.4	2259.1
50°	2378.9	2899.6	2440.8	1958.9	1825.0	1958.9	2440.8	2899.6	2378.9	2071.9	1964.8
52.5°	2043.7	2364.8	2078.7	1745.7	1655.5	1745.7	2078.7	2364.8	2043.7	1812.7	1746.1
55°	1761.2	1988.0	1807.7	1569.8	1507.5	1569.8	1807.7	1988.0	1761.2	1613.1	1564.0
57.5°	1546.6	1686.5	1569.8	1419.9	1378.5	1419.9	1569.8	1686.5	1546.6	1435.4	1409.1
60°	1356.7	1460.5	1385.4	1289.2	1277.4	1289.2	1385.4	1460.5	1356.7	1291.5	1274.2
62.5°	1210.4	1276.0	1225.0	1171.7	1161.2	1171.7	1225.0	1276.0	1210.4	1160.3	1163.5
65°	1073.7	1134.8	1094.7	1066.0	1069.6	1066.0	1094.7	1134.8	1073.7	1050.5	1055.6
67.5°	968.0	999.9	982.7	966.3	970.4	966.3	982.7	999.9	968.0	945.2	953.0
70°	855.5	889.7	871.9	874.2	881.1	874.2	871.9	889.7	855.5	848.7	854.6
72.5°	748.0	774.4	768.5	774.0	781.3	774.0	768.5	774.4	748.0	747.1	747.6
75°	642.3	662.4	665.1	672.8	684.2	672.8	665.1	662.4	642.3	635.5	643.7
77.5°	527.1	549.8	558.5	569.0	585.8	569.0	558.5	549.8	527.1	531.7	535.8
80°	421.4	431.8	451.0	458.8	482.5	458.8	451.0	431.8	421.4	413.7	419.5
82.5°	308.4	318.0	334.4	349.0	362.6	349.0	334.4	318.0	308.4	304.8	305.2
85°	178.1	192.7	203.6	220.9	225.0	220.9	203.6	192.7	178.1	182.2	178.1
87.5°	62.4	66.9	76.5	83.4	83.9	83.4	76.5	66.9	62.4	63.8	57.8
90°	10.0	17.1	29.3	17.5	13.2	17.5	29.3	17.1	10.0	17.4	27.0
92.5°	13.0	23.0	41.1	22.6	16.9	22.6	41.1	23.0	13.0	22.5	43.1
95°	19.3	28.2	52.1	24.9	19.9	24.9	52.1	28.2	19.3	29.9	60.2
97.5°	29.6	34.8	58.8	26.4	23.5	26.4	58.8	34.8	29.6	36.5	69.0
100°	39.2	39.2	106.7	30.0	26.5	30.0	106.7	39.2	39.2	45.1	107.3
102.5°	59.1	76.5	246.3	58.5	31.6	58.5	246.3	76.5	59.1	84.1	227.3
105°	106.9	173.7	432.7	147.6	56.4	147.6	432.7	173.7	106.9	175.5	404.8
107.5°	202.0	323.2	557.2	289.0	127.9	289.0	557.2	323.2	202.0	310.3	534.2
110°	322.8	451.5	608.0	395.1	256.0	395.1	608.0	451.5	322.8	425.9	560.0

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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°	420.0	503.0	594.0	437.8	*353.2*	437.8	594.0	503.0	420.0	470.1	536.4
115°	456.5	495.7	530.7	436.3	*391.6*	436.3	530.7	495.7	456.5	459.0	479.0
117.5°	441.1	453.6	458.5	409.8	*393.8*	409.8	458.5	453.6	441.1	413.1	406.8
120°	398.3	393.3	386.8	370.8	*371.7*	370.8	386.8	393.3	398.3	360.8	339.7
122.5°	345.0	334.0	327.1	331.4	*341.5*	331.4	327.1	334.0	345.0	307.4	291.6
125°	292.7	281.7	285.6	297.6	*308.1*	297.6	285.6	281.7	292.7	261.6	257.4
127.5°	249.1	243.9	255.4	268.9	*277.9*	268.9	255.4	243.9	249.1	229.2	233.1
130°	217.9	218.9	234.1	245.7	*251.3*	245.7	234.1	218.9	217.9	208.3	218.2
132.5°	198.4	203.9	218.3	228.5	*231.9*	228.5	218.3	203.9	198.4	195.9	208.0
135°	186.3	194.3	207.7	214.1	*215.7*	214.1	207.7	194.3	186.3	187.5	198.4
137.5°	179.4	187.4	197.4	202.7	*201.7*	202.7	197.4	187.4	179.4	182.1	190.4
140°	175.5	183.4	187.9	193.8	*193.3*	193.8	187.9	183.4	175.5	176.9	183.6
142.5°	171.5	178.7	180.9	185.4	*184.5*	185.4	180.9	178.7	171.5	173.0	177.3
145°	169.7	175.1	173.2	178.9	*177.5*	178.9	173.2	175.1	169.7	170.0	172.6
147.5°	166.0	170.0	167.8	172.6	*171.5*	172.6	167.8	170.0	166.0	166.0	167.2
150°	162.0	165.0	161.6	167.2	*167.4*	167.2	161.6	165.0	162.0	161.3	162.5
152.5°	156.7	159.6	156.7	163.0	*162.7*	163.0	156.7	159.6	156.7	155.9	157.1
155°	152.4	153.9	152.4	158.8	*159.2*	158.8	152.4	153.9	152.4	151.9	152.8
157.5°	149.6	150.8	150.1	155.7	*156.1*	155.7	150.1	150.8	149.6	149.6	150.1
160°	147.8	149.2	149.0	153.9	*154.3*	153.9	149.0	149.2	147.8	148.0	148.5
162.5°	147.2	147.2	147.4	152.3	*153.2*	152.3	147.4	147.2	147.2	147.2	147.9
165°	146.3	147.1	146.5	150.3	*152.0*	150.3	146.5	147.1	146.3	146.7	146.7
167.5°	146.5	145.8	146.7	150.3	*151.9*	150.3	146.7	145.8	146.5	146.8	146.8
170°	145.5	146.0	146.1	149.7	*151.3*	149.7	146.1	146.0	145.5	146.2	146.5
172.5°	146.9	146.9	146.8	149.6	*152.0*	149.6	146.8	146.9	146.9	147.2	147.9
175°	147.8	147.5	147.7	149.8	*152.2*	149.8	147.7	147.5	147.8	147.4	147.4
177.5°	147.0	147.9	148.8	151.0	*154.1*	151.0	148.8	147.9	147.0	147.4	147.4
180°	147.9	147.9	147.9	147.9	*147.9*	147.9	147.9	147.9	147.9	147.9	147.9

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	24294.2	24294.2	24294.2	24294.2	24294.2	24294.2
2.5°	23588.6	23573.1	23588.6	23753.4	23968.0	24280.1
5°	23040.5	22954.9	23040.5	23223.2	23617.3	24211.3
7.5°	22402.3	22352.6	22402.3	22707.9	23205.9	24046.9
10°	*21730.4*	*21617.8*	*21730.4*	*22075.7*	*22662.8*	*23795.8*
12.5°	20902.1	20753.2	20902.1	21258.9	21999.6	23395.4
15°	19848.9	19718.2	19848.9	20244.8	21104.0	22803.2
17.5°	18718.7	18600.2	18718.7	19062.6	20008.9	21968.6
20°	17299.2	17206.2	17299.2	17785.7	18714.1	20893.0
22.5°	15810.0	15723.0	15810.0	16242.3	17208.5	19544.6
25°	14057.9	14010.5	14057.9	14540.8	15414.6	17967.5
27.5°	12164.7	12084.0	12164.7	12669.9	13562.3	16112.4
30°	10230.4	10096.9	10230.4	10682.3	11481.3	14052.0
32.5°	8338.5	8242.3	8338.5	8660.5	9495.5	11745.0
35°	6509.9	6413.7	6509.9	6800.9	7620.9	9616.7
37.5°	5072.5	4902.7	5072.5	5259.3	5924.9	7547.2
40°	3847.1	3819.8	3847.1	4082.2	4508.2	5871.6
42.5°	3131.9	3057.7	3131.9	3233.1	3551.9	4448.9
45°	2569.8	2540.6	2569.8	2646.3	2860.4	3477.7
47.5°	2209.8	2222.7	2209.8	2259.1	2419.4	2832.1
50°	1941.5	1949.3	1941.5	1964.8	2071.9	2378.9
52.5°	1743.9	1737.0	1743.9	1746.1	1812.7	2043.7
55°	1568.9	1560.3	1568.9	1564.0	1613.1	1761.2
57.5°	1415.8	1422.3	1415.8	1409.1	1435.4	1546.6
60°	1279.2	1285.1	1279.2	1274.2	1291.5	1356.7
62.5°	1163.9	1167.6	1163.9	1163.5	1160.3	1210.4
65°	1061.0	1065.1	1061.0	1055.6	1050.5	1073.7
67.5°	962.6	962.6	962.6	953.0	945.2	968.0
70°	870.1	869.7	870.1	854.6	848.7	855.5
72.5°	759.0	769.9	759.0	747.6	747.1	748.0
75°	651.0	663.7	651.0	643.7	635.5	642.3
77.5°	541.6	561.2	541.6	535.8	531.7	527.1
80°	429.6	451.0	429.6	419.5	413.7	421.4
82.5°	317.5	333.5	317.5	305.2	304.8	308.4
85°	189.0	214.6	189.0	178.1	182.2	178.1
87.5°	60.6	77.4	60.6	57.8	63.8	62.4
90°	16.0	10.0	16.0	27.0	17.4	10.0
92.5°	24.1	14.4	24.1	43.1	22.5	13.0
95°	27.7	16.7	27.7	60.2	29.9	19.3
97.5°	30.7	21.5	30.7	69.0	36.5	29.6
100°	35.8	28.2	35.8	107.3	45.1	39.2
102.5°	75.6	47.3	75.6	227.3	84.1	59.1
105°	158.8	81.2	158.8	404.8	175.5	106.9
107.5°	284.0	140.1	284.0	534.2	310.3	202.0
110°	376.9	260.9	376.9	560.0	425.9	322.8

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

Scaled Data Report

TEST NUMBER: P1433187
CATALOG NUMBER: EHBR1-30-UNV-TASM-L930-UPL15

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	404.8	352.3	404.8	536.4	470.1	420.0
115°	389.3	370.7	389.3	479.0	459.0	456.5
117.5°	355.5	358.1	355.5	406.8	413.1	441.1
120°	316.4	331.6	316.4	339.7	360.8	398.3
122.5°	280.8	298.4	280.8	291.6	307.4	345.0
125°	249.9	268.0	249.9	257.4	261.6	292.7
127.5°	228.5	240.7	228.5	233.1	229.2	249.1
130°	212.0	222.3	212.0	218.2	208.3	217.9
132.5°	200.7	207.3	200.7	208.0	195.9	198.4
135°	190.9	196.2	190.9	198.4	187.5	186.3
137.5°	182.5	187.2	182.5	190.4	182.1	179.4
140°	175.3	179.3	175.3	183.6	176.9	175.5
142.5°	167.6	170.6	167.6	177.3	173.0	171.5
145°	162.6	164.9	162.6	172.6	170.0	169.7
147.5°	158.4	159.9	158.4	167.2	166.0	166.0
150°	154.2	155.7	154.2	162.5	161.3	162.0
152.5°	149.4	151.4	149.4	157.1	155.9	156.7
155°	146.7	148.6	146.7	152.8	151.9	152.4
157.5°	145.3	146.9	145.3	150.1	149.6	149.6
160°	144.5	145.8	144.5	148.5	148.0	147.8
162.5°	143.3	144.5	143.3	147.9	147.2	147.2
165°	143.4	143.8	143.4	146.7	146.7	146.3
167.5°	143.1	143.8	143.1	146.8	146.8	146.5
170°	143.6	144.0	143.6	146.5	146.2	145.5
172.5°	144.5	145.0	144.5	147.9	147.2	146.9
175°	144.7	145.2	144.7	147.4	147.4	147.8
177.5°	145.9	146.3	145.9	147.4	147.4	147.0
180°	147.9	147.9	147.9	147.9	147.9	147.9

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

Scaled Data Report

TEST NUMBER: P1433187
CATALOG NUMBER: EHBR1-30-UNV-TASM-L930-UPL15

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	17.25	18.39	17.70	18.80	19.24	16.57	17.70	17.02	18.12	18.56
	3H	18.80	19.81	19.27	20.24	20.72	18.42	19.43	18.89	19.86	20.34
	4H	19.44	20.38	19.93	20.83	21.33	19.20	20.14	19.69	20.59	21.09
	6H	19.92	20.78	20.42	21.25	21.76	19.85	20.71	20.35	21.18	21.69
	8H	20.07	20.89	20.59	21.38	21.90	20.07	20.89	20.58	21.37	21.89
	12H	20.14	20.93	20.66	21.40	21.95	20.20	20.98	20.71	21.45	22.00
4H	2H	17.67	18.61	18.16	19.06	19.56	17.15	18.09	17.64	18.54	19.04
	3H	19.47	20.24	19.97	20.74	21.26	19.21	19.98	19.71	20.48	21.00
	4H	20.24	20.94	20.76	21.45	22.01	20.11	20.81	20.63	21.32	21.88
	6H	20.86	21.46	21.40	21.99	22.57	20.89	21.49	21.43	22.02	22.60
	8H	21.05	21.62	21.61	22.15	22.73	21.16	21.72	21.71	22.25	22.83
	12H	21.16	21.66	21.73	22.22	22.81	21.33	21.82	21.89	22.39	22.97
8H	4H	20.49	21.05	21.04	21.59	22.17	20.39	20.96	20.95	21.49	22.07
	6H	21.23	21.69	21.82	22.27	22.86	21.30	21.76	21.88	22.34	22.93
	8H	21.50	21.91	22.11	22.51	23.11	21.65	22.06	22.25	22.66	23.26
	12H	21.68	22.03	22.27	22.61	23.29	21.90	22.26	22.50	22.84	23.51
12H	4H	20.50	21.00	21.07	21.57	22.15	20.41	20.90	20.97	21.47	22.05
	6H	21.28	21.68	21.88	22.28	22.88	21.34	21.75	21.95	22.35	22.95
	8H	21.60	21.95	22.19	22.53	23.21	21.75	22.11	22.34	22.68	23.36

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: SP1-2506-472-5

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L930-N

Data in this report applies to families of products including EHBR-60-L930-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

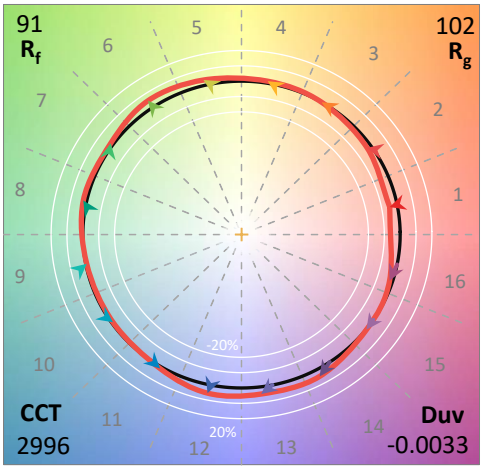
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-5
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-L930-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	2996
CIE u':	0.2519
CIE v':	0.5169
Duv:	-0.0033
CIE x:	0.4325
CIE y:	0.3945
CIE z:	0.1730
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	584
Purity:	48.21818
Rf:	91.3
Rg:	102

CRI (Ra):	94.4
R1:	96.8
R2:	98.1
R3:	97.8
R4:	95.6
R5:	96.9
R6:	95.7
R7:	90.9
R8:	83.0
R9:	61.4
R10:	94.4
R11:	95.7
R12:	88.5
R13:	97.3
R14:	97.8
R15:	92.3



Test Conditions

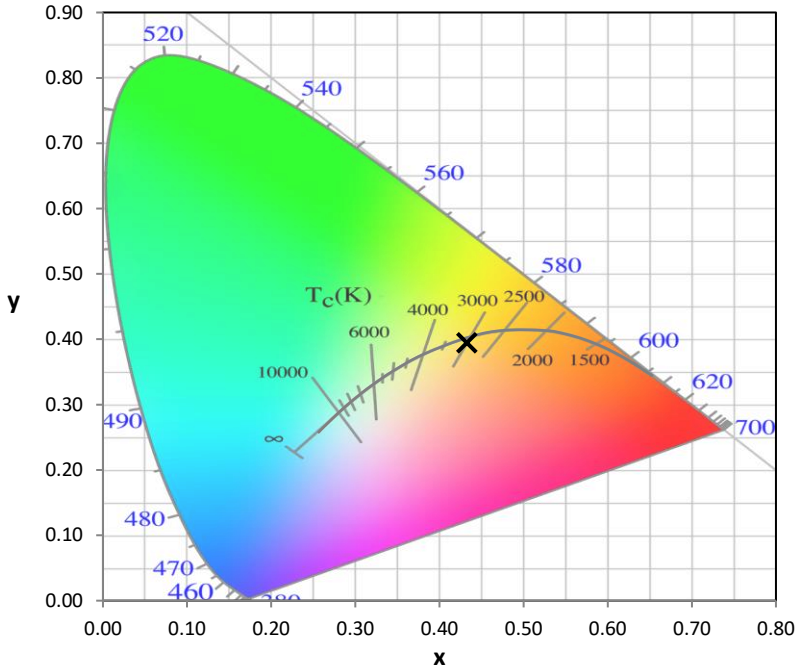
Stabilization Time:	40M
Operation Time:	1H 40M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-5

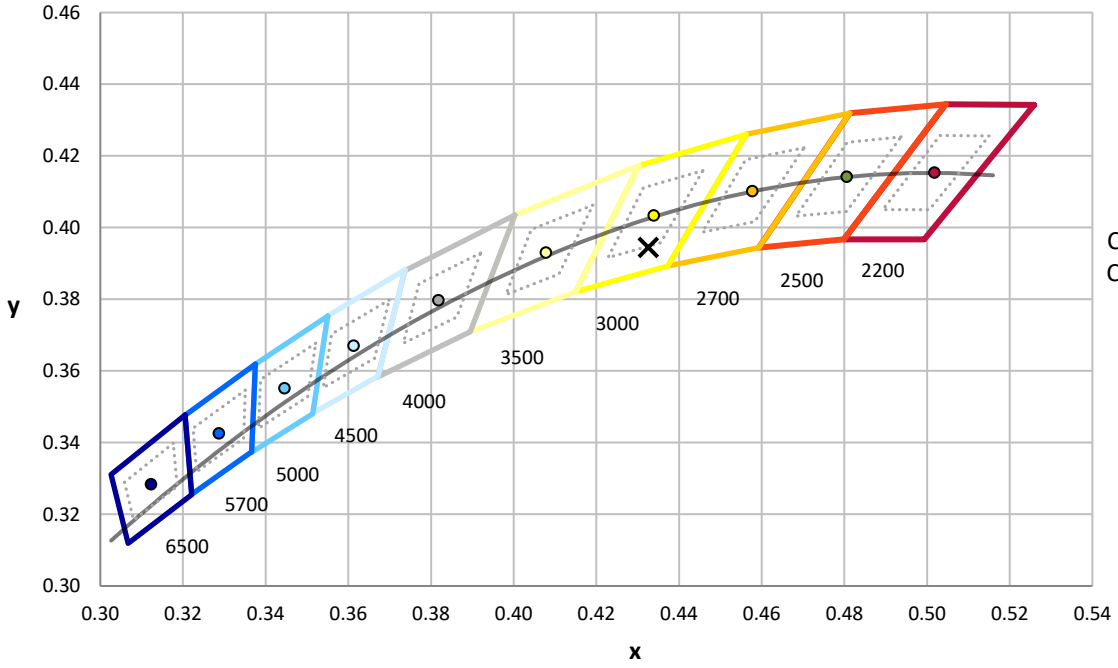
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-5

CIE 1931 Chromaticity Diagram



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

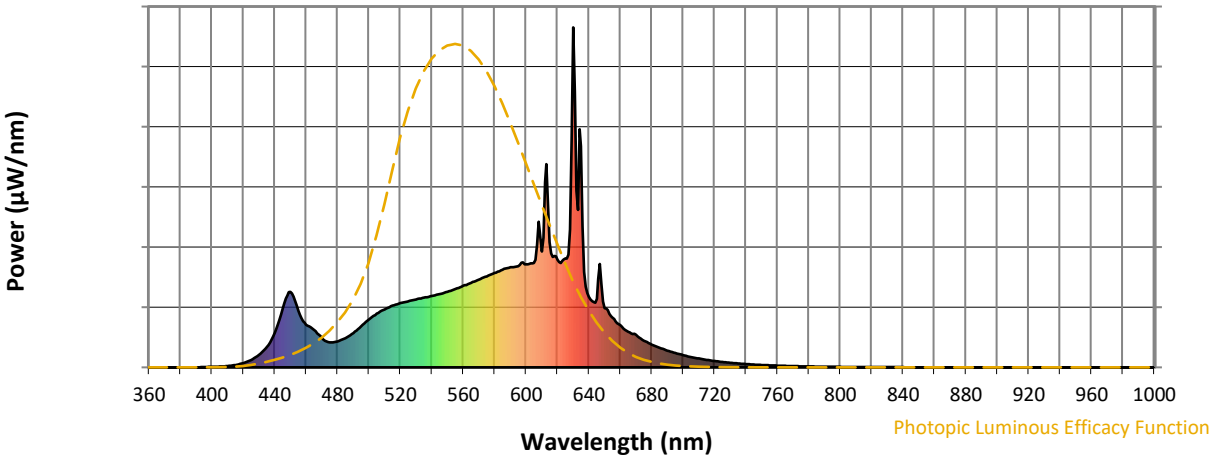


CCT = 2996K
CIE x = 0.4325
CIE y = 0.3945
Duv = -0.0033

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-472-5

Photopic Flux vs. Wavelength

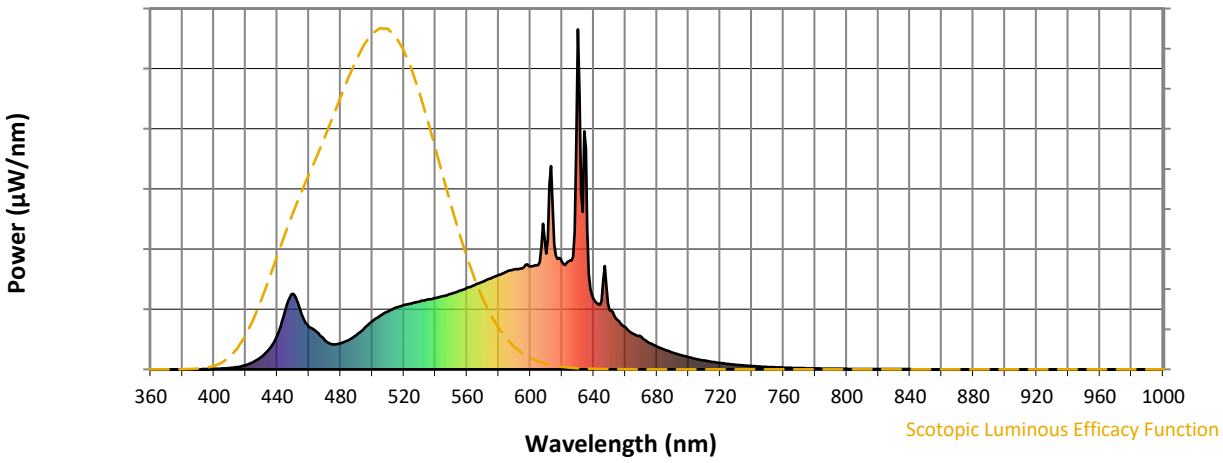


Photopic Lumens: NR

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Scotopic Flux vs. Wavelength

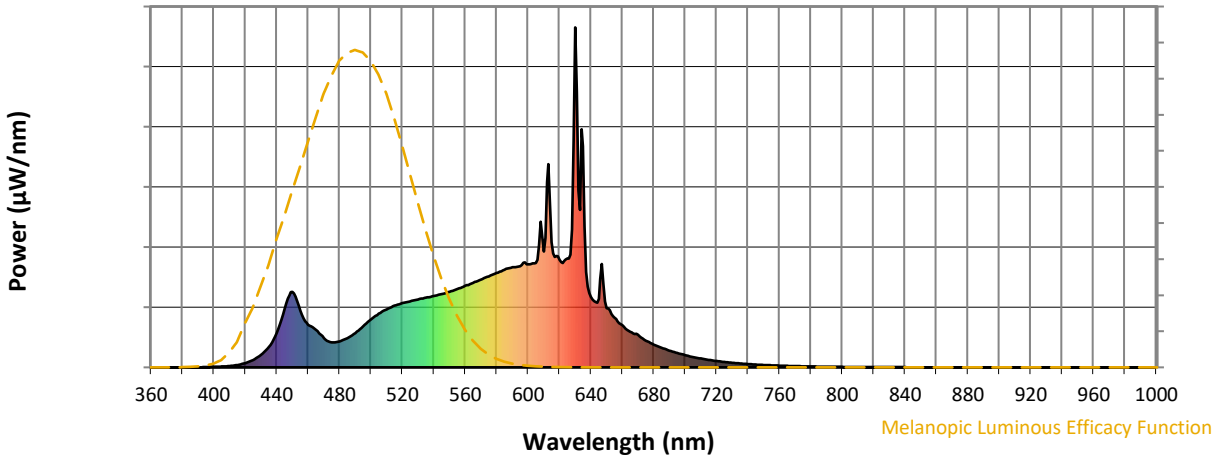


Scotopic Lumens: NR **S/P: 1.44**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.85**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

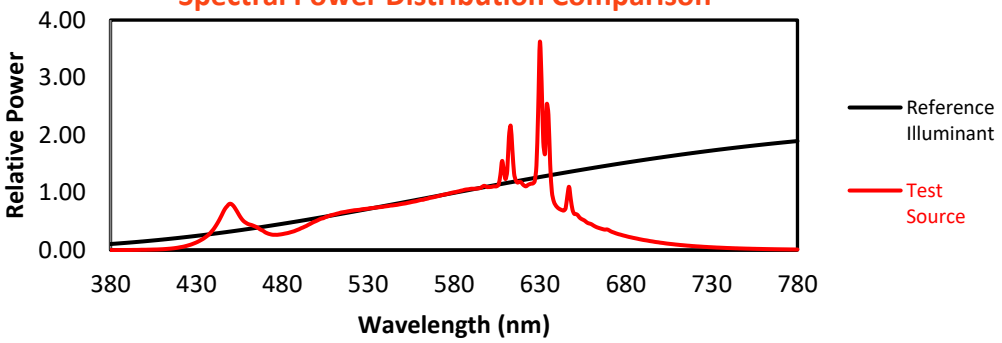
REPORT NUMBER: SP1-2506-472-5

TM-30-18

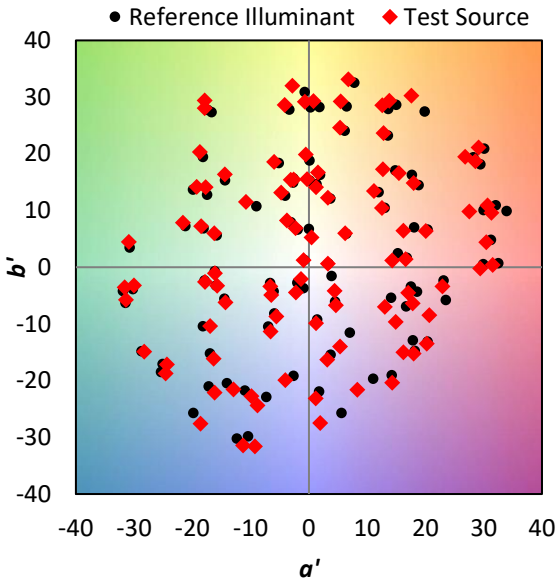
Summary

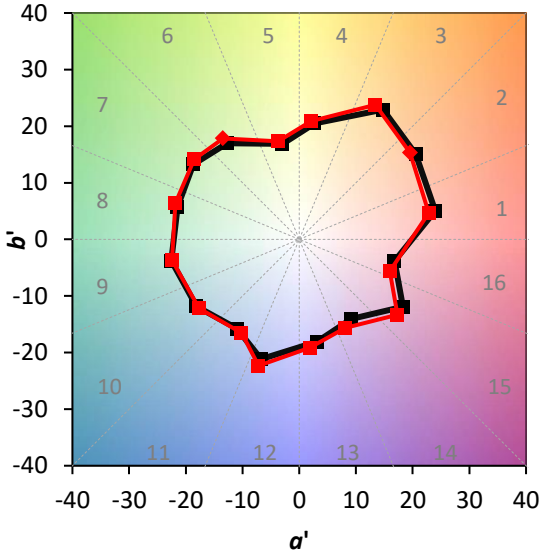
R_f = 91.3
R_g = 102
CIE R_a = 94.4
R_9 = 61.4

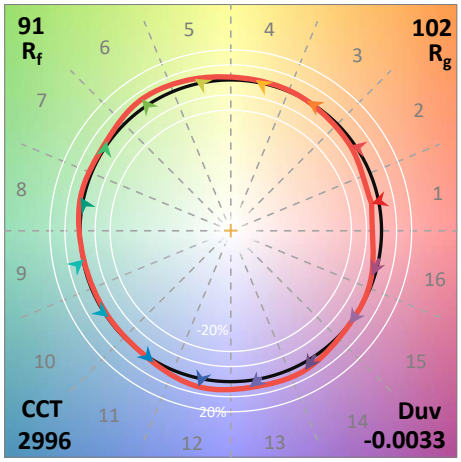
Spectral Power Distribution Comparison

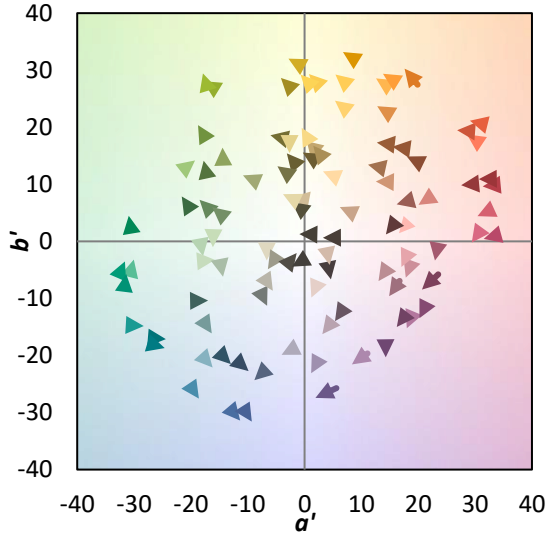


Color Vector Graphics







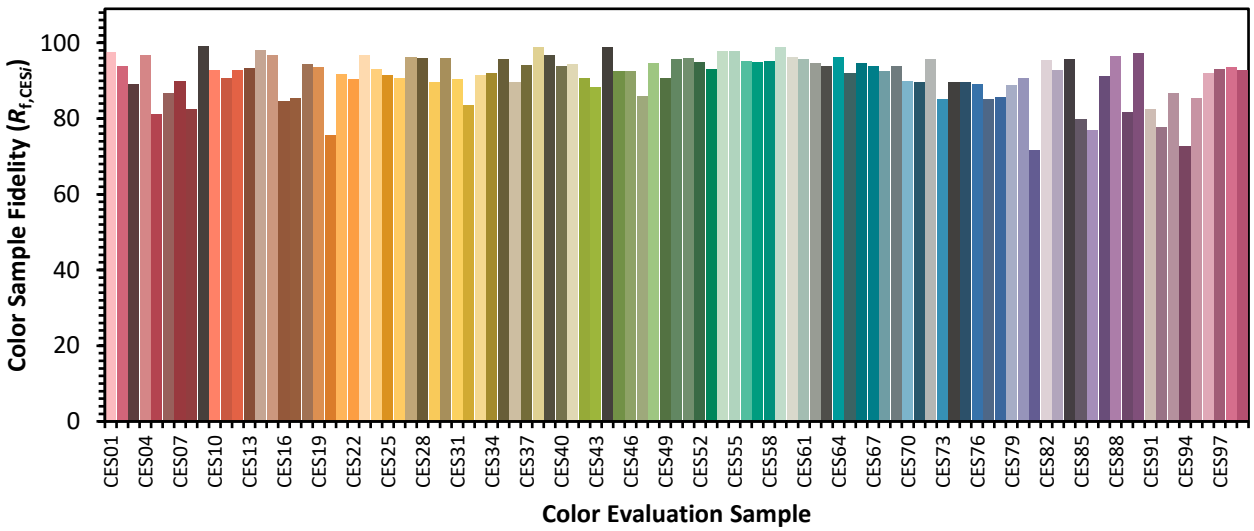


REPORT NUMBER: SP1-2506-472-5

TM-30-18

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

CES01 = 86	CES26 = 91	CES51 = 96	CES76 = 89
CES02 = 63	CES27 = 96	CES52 = 95	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 93	CES78 = 86
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 89
CES05 = 51	CES30 = 96	CES55 = 98	CES80 = 91
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 72
CES07 = 44	CES32 = 84	CES57 = 95	CES82 = 95
CES08 = 42	CES33 = 91	CES58 = 95	CES83 = 93
CES09 = 29	CES34 = 92	CES59 = 99	CES84 = 96
CES10 = 76	CES35 = 96	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 90	CES61 = 96	CES86 = 77
CES12 = 65	CES37 = 94	CES62 = 95	CES87 = 91
CES13 = 44	CES38 = 99	CES63 = 94	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 96	CES89 = 82
CES15 = 72	CES40 = 94	CES65 = 92	CES90 = 97
CES16 = 48	CES41 = 94	CES66 = 95	CES91 = 82
CES17 = 50	CES42 = 91	CES67 = 94	CES92 = 78
CES18 = 57	CES43 = 88	CES68 = 93	CES93 = 87
CES19 = 72	CES44 = 99	CES69 = 94	CES94 = 73
CES20 = 67	CES45 = 93	CES70 = 90	CES95 = 85
CES21 = 86	CES46 = 93	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 93
CES23 = 92	CES48 = 95	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 93
CES25 = 72	CES50 = 96	CES75 = 90	



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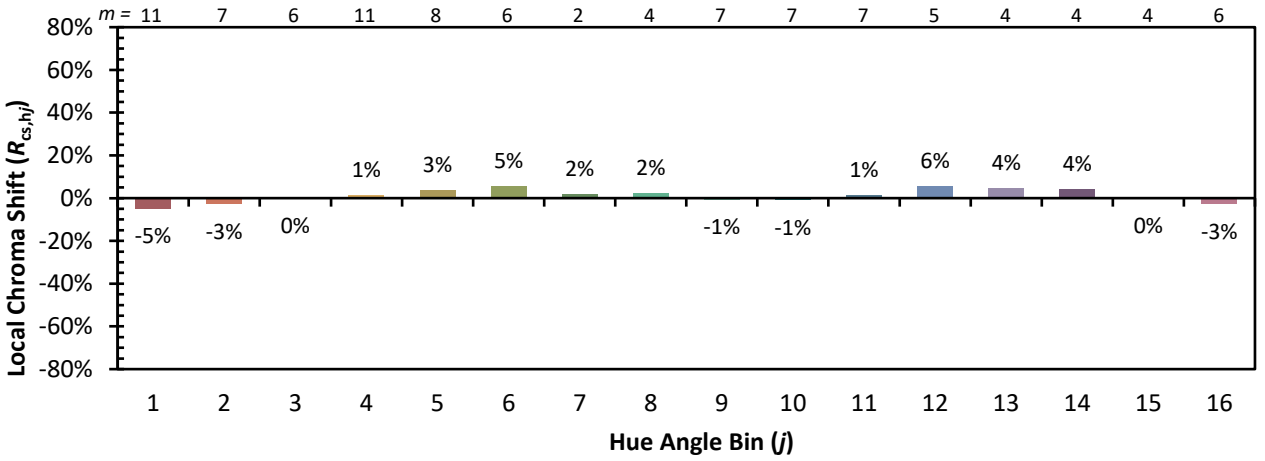
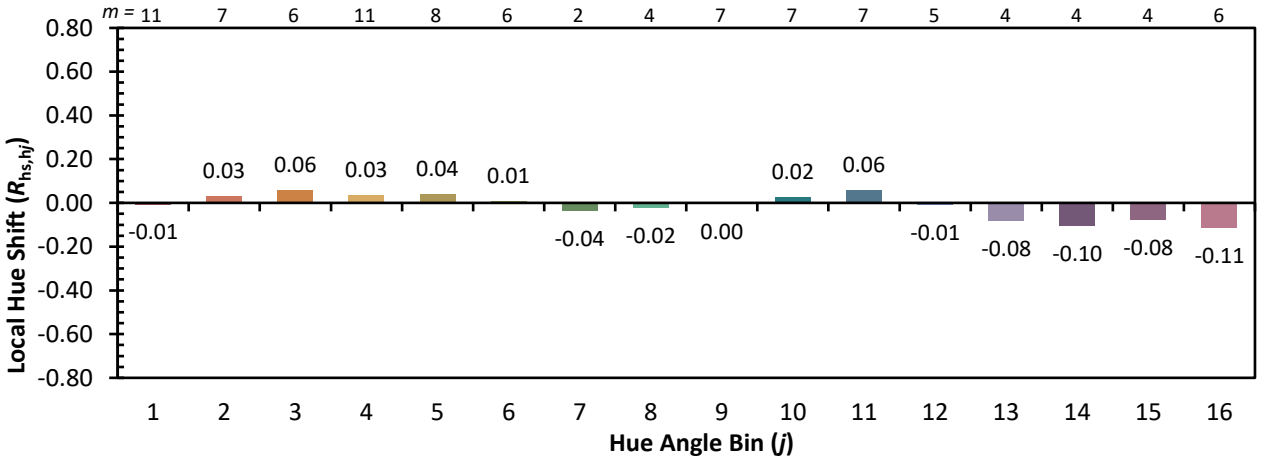
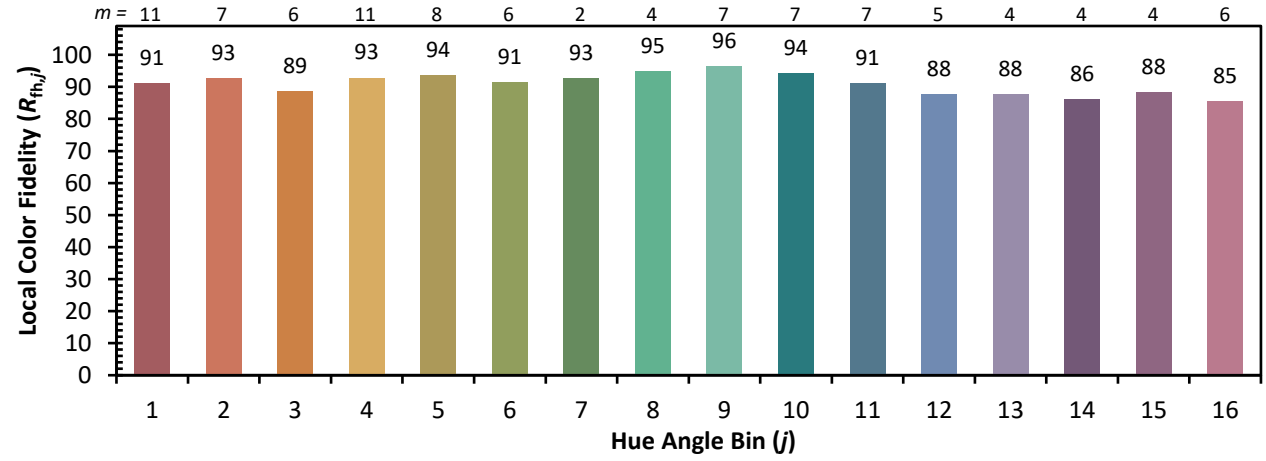
Color Rendition by Hue-Angle Bin







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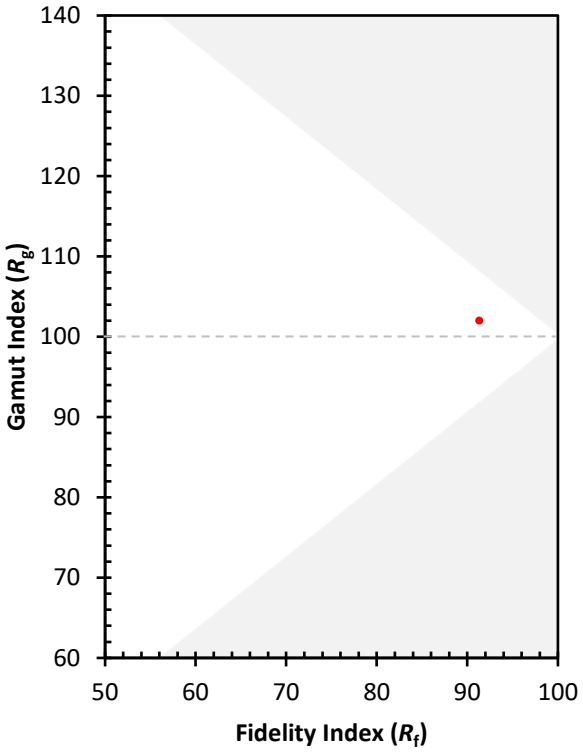
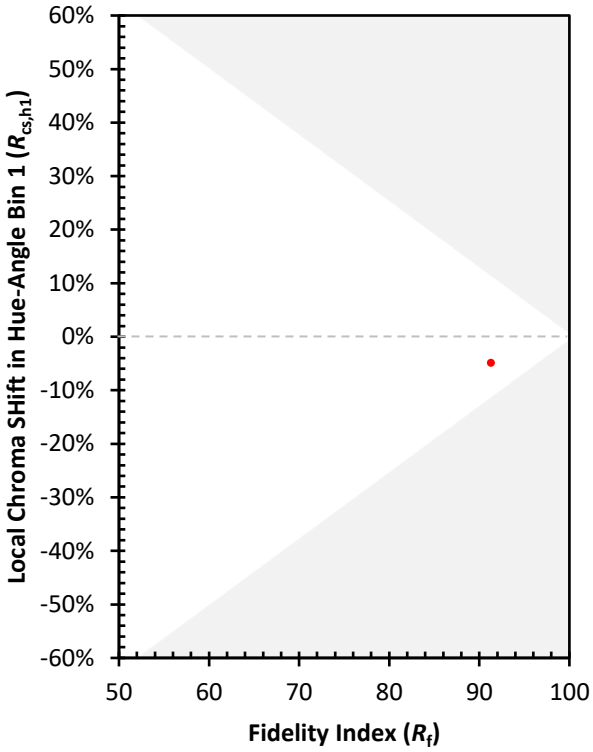
Measure Comparisons





(END OF REPORT)