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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1201247

Luminaire Tested: GWC-SB1A-830-U-SLR

Issue Date: 10/30/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1201247
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/14/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWC-SB1A-830-U-SLR
Description:	GALLEON WALL LUMINAIRE
	(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4038 lumens
Efficiency:	N/A
Efficacy:	130.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	30.9
Input Voltage (V):	120.0
Input Current (Ain):	0.263
Voltage Rise (V):	NR
Power Factor:	0.995
Total Harmonic Distortion (THDi):	6.356
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

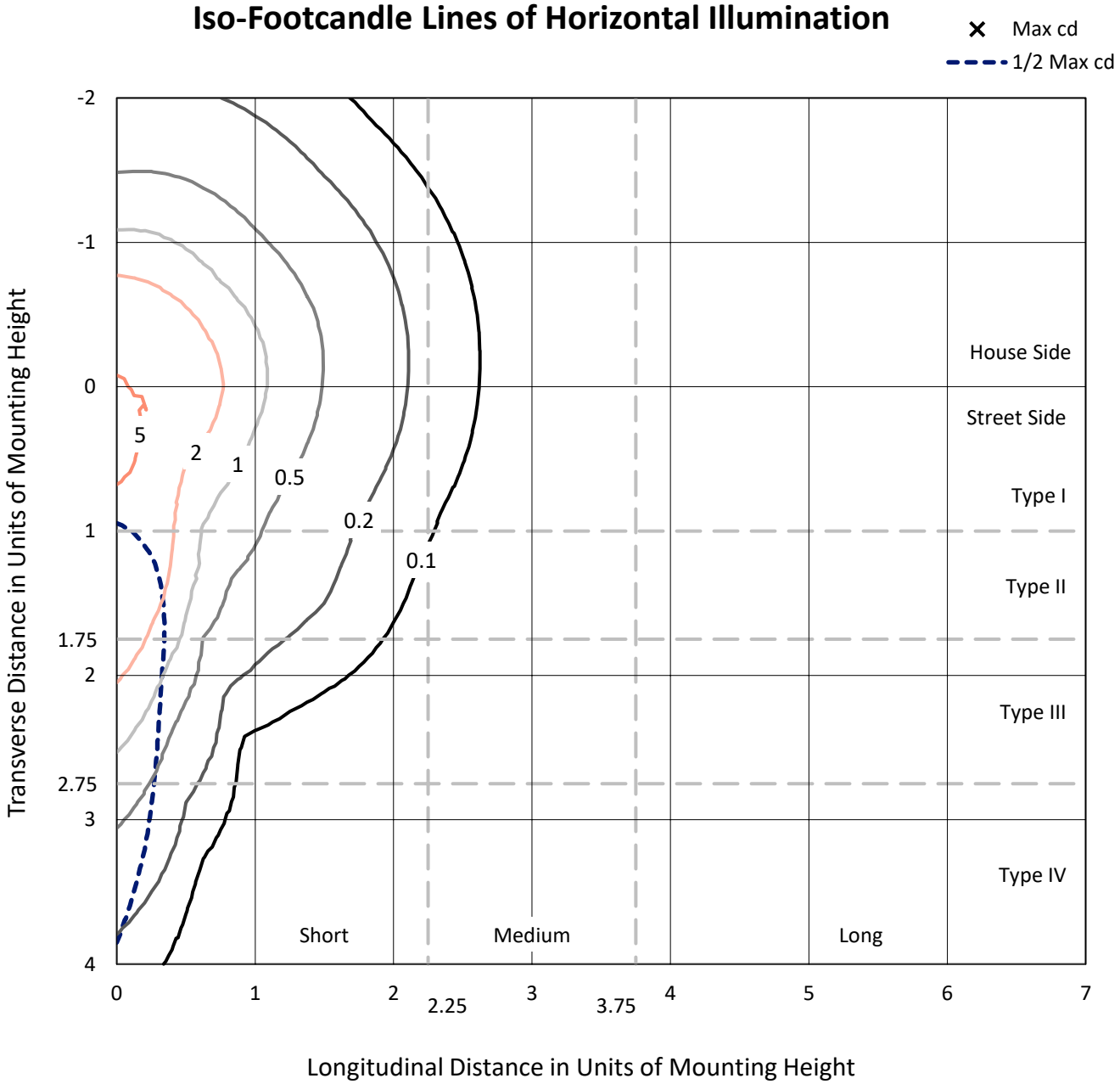


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Iso-Footcandle Lines of Horizontal Illumination



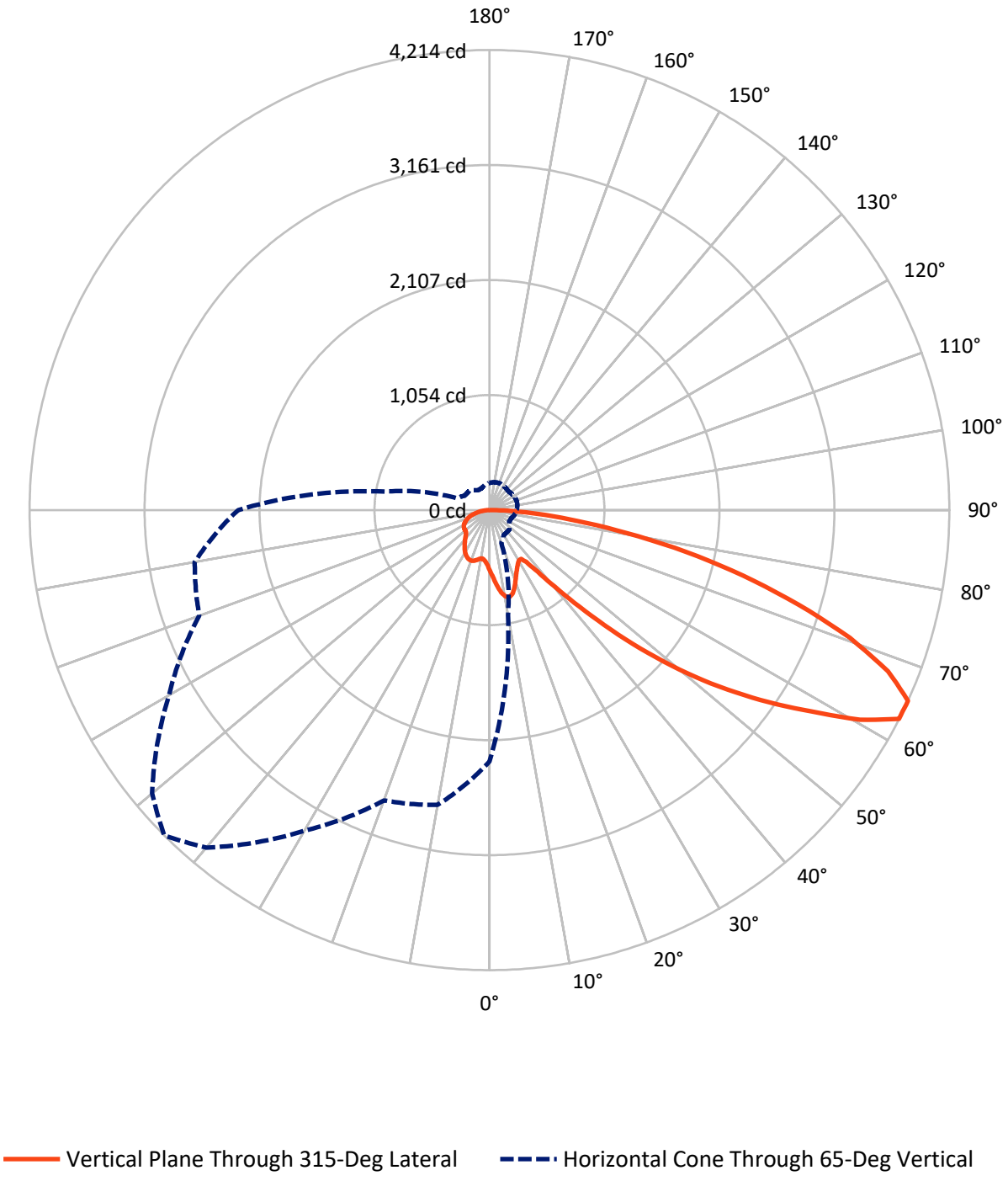
Based on 10 foot mounting height. Maximum calculated value = 6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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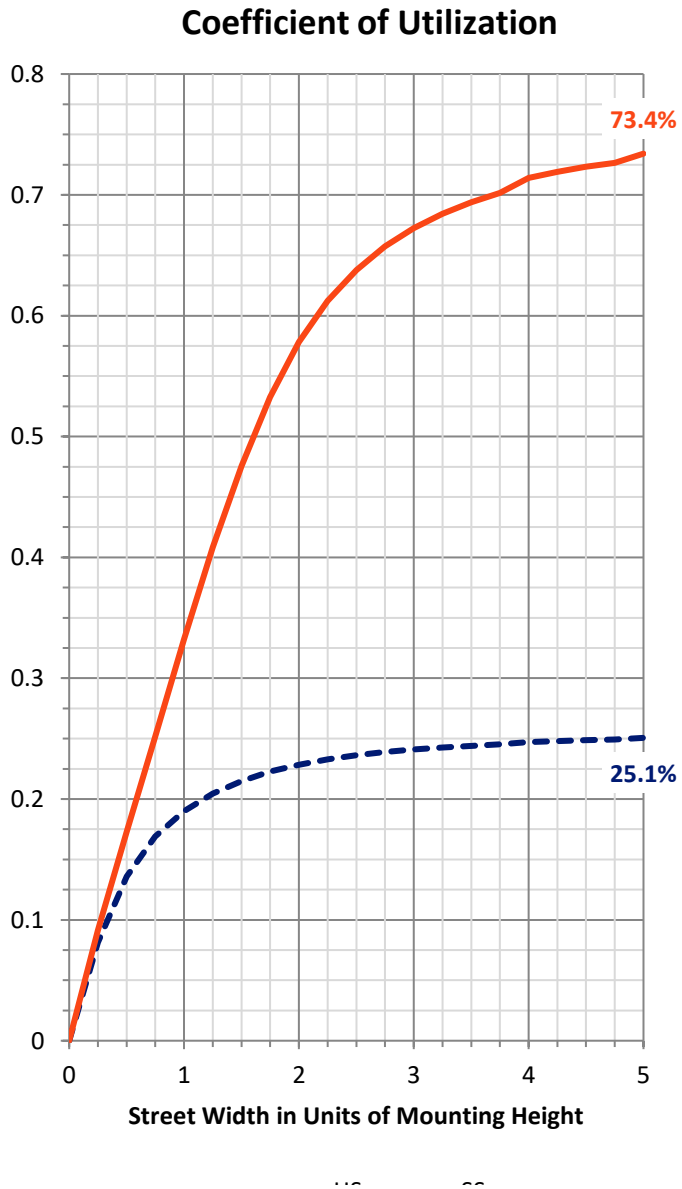
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1026.3	0.0	1026.3
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	3011.7	0.0	3011.7
	% Fixture	74.6	0.0	74.6
Total	Lumens	4038.0	0.0	4038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.4
10°-20°	172.9	4.3
20°-30°	267.1	6.6
30°-40°	338.5	8.4
40°-50°	510.5	12.6
50°-60°	824.8	20.4
60°-70°	1028.2	25.5
70°-80°	674.3	16.7
80°-90°	166.7	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4038.0	100.0
0°-180°	4038.0	100.0



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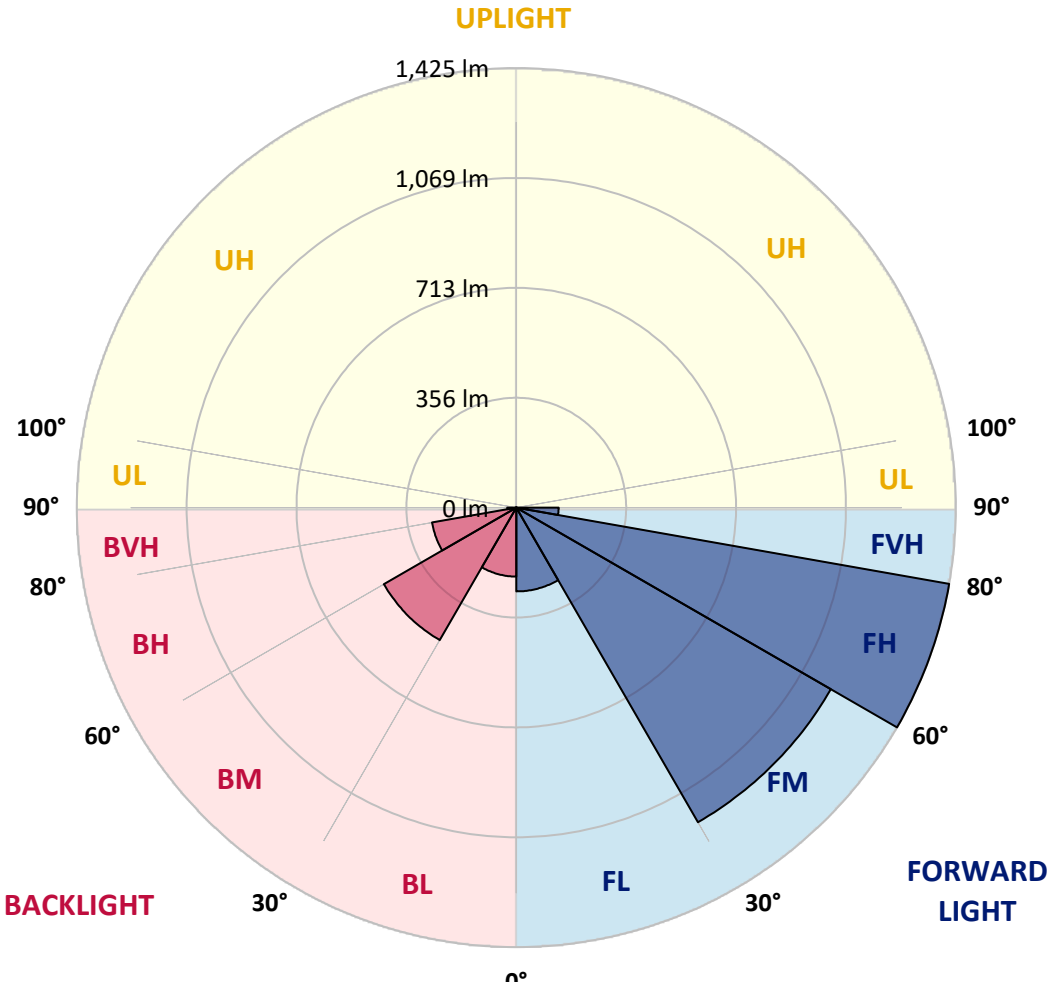
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	271.6	6.7			
FM	(30°-60°)	1177.8	29.2			
FH	(60°-80°)	1425.0	35.3			G1/1800
FVH	(80°-90°)	137.3	3.4			G2/225
BL	(0°-30°)	223.5	5.5	B1/500		
BM	(30°-60°)	496.0	12.3	B1/1000		
BH	(60°-80°)	277.4	6.9	B1/500		G1/500
BVH	(80°-90°)	29.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	597.1	592.5	588.0	583.1	578.2	573.3	568.4	563.7	559.1	554.5	549.5
5°	642.1	632.0	621.8	611.7	601.7	591.5	581.4	571.9	562.4	553.4	544.6
7.5°	687.3	670.6	653.9	638.4	623.0	608.0	593.0	579.7	566.5	554.3	542.9
10°	721.9	700.8	679.6	659.3	638.9	620.7	602.4	586.8	571.1	556.0	543.7
12.5°	743.1	719.9	696.7	673.6	650.5	629.0	607.5	589.8	572.0	556.2	544.8
15°	756.0	731.8	707.6	682.5	657.5	632.7	607.9	587.4	566.9	549.4	540.2
17.5°	763.2	738.7	714.2	686.8	659.5	630.7	602.0	577.3	552.7	532.0	526.4
20°	771.2	745.7	720.2	690.2	660.1	625.3	590.4	559.9	529.3	505.3	503.8
22.5°	780.5	754.4	728.4	694.7	661.0	618.6	576.2	539.4	502.6	475.3	478.2
25°	792.4	766.9	741.4	702.9	664.4	612.0	559.6	516.5	473.4	445.4	453.3
27.5°	808.6	784.3	759.9	715.7	671.4	607.6	543.8	495.6	447.5	422.0	431.6
30°	830.4	806.9	783.4	732.2	681.0	605.5	529.9	478.1	426.4	404.9	412.5
32.5°	856.2	832.9	809.7	749.5	689.3	602.9	516.5	463.1	409.6	392.4	395.7
35°	887.5	865.3	842.9	769.2	695.4	598.1	500.9	448.3	395.7	381.3	379.9
37.5°	940.3	911.9	883.4	791.2	699.0	589.9	480.7	430.8	381.0	368.4	363.3
40°	1020.0	978.5	937.1	819.2	701.3	578.5	455.8	410.1	364.3	353.0	345.2
42.5°	1125.6	1065.9	1006.1	855.9	705.6	566.8	428.0	387.1	346.2	335.7	325.9
45°	1256.2	1175.5	1094.9	904.1	713.3	555.9	398.6	362.7	326.8	316.2	306.7
47.5°	1419.4	1305.9	1192.3	955.4	718.5	546.9	375.4	343.4	311.5	297.8	289.6
50°	1633.3	1462.2	1291.0	1003.0	715.1	537.1	359.2	330.6	302.1	284.0	274.5
52.5°	1878.8	1626.4	1373.9	1034.0	694.1	520.6	347.1	322.2	297.3	276.6	263.3
55°	2140.3	1771.9	1403.6	1027.2	650.7	493.1	335.5	316.1	296.6	277.3	257.3
57.5°	2378.1	1875.1	1372.1	979.2	586.3	454.4	322.6	308.8	295.1	278.1	253.8
60°	2521.8	1900.9	1280.0	889.9	499.8	404.2	308.6	297.8	287.0	275.7	250.4
62.5°	2448.8	1792.3	1135.8	769.1	402.4	344.1	285.7	278.5	271.3	270.0	246.5
65°	*2302.8*	*1638.7*	*974.7*	*645.9*	*317.2*	*290.0*	*262.7*	*259.3*	*255.9*	*256.1*	*238.2*
67.5°	2107.0	1455.9	804.8	525.3	245.7	238.0	230.2	232.1	234.0	233.5	223.5
70°	1871.9	1256.5	641.0	413.6	186.1	188.3	190.5	199.3	208.1	208.1	204.8
72.5°	1591.7	1040.2	488.8	316.2	143.6	150.2	156.9	169.4	181.8	183.9	183.9
75°	1237.3	792.4	347.5	229.5	111.5	117.5	123.6	137.5	151.4	161.1	160.3
77.5°	884.0	554.6	225.2	155.5	85.8	89.9	94.1	107.6	121.1	137.0	136.6
80°	578.6	357.3	136.0	100.2	64.3	66.1	67.8	79.2	90.7	109.6	109.6
82.5°	336.3	206.8	77.3	61.6	46.0	46.3	46.6	55.1	63.5	79.7	80.6
85°	148.0	93.0	38.1	32.9	27.8	27.7	27.5	33.7	39.8	51.9	53.1
87.5°	45.8	30.5	15.1	13.7	12.2	12.0	11.9	14.4	16.9	21.9	23.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	545.4	541.3	537.6	534.0	530.7	527.5	524.3	521.1	518.6	516.1	514.0
5°	536.9	529.2	522.7	516.2	510.5	504.8	499.6	494.4	490.4	486.4	483.6
7.5°	532.6	522.3	513.8	505.3	498.1	490.9	484.6	478.2	473.5	468.8	465.4
10°	532.9	522.1	513.5	505.0	497.3	489.5	482.4	475.3	469.6	463.9	460.2
12.5°	535.9	527.1	521.4	515.8	509.7	503.7	496.3	488.9	481.6	474.4	469.6
15°	536.0	531.8	532.5	533.3	531.7	530.2	523.7	517.3	507.0	496.7	489.4
17.5°	527.9	529.5	538.8	548.1	553.0	557.9	552.7	547.6	533.9	520.3	509.5
20°	511.0	518.3	534.4	550.6	560.9	571.2	568.9	566.4	550.8	535.2	522.1
22.5°	488.9	499.6	518.0	536.5	549.9	563.4	564.8	566.2	551.3	536.4	522.9
25°	465.7	478.0	494.6	511.2	524.4	537.6	542.6	547.5	535.3	523.0	511.0
27.5°	443.5	455.4	469.1	482.6	493.3	503.9	509.4	514.9	506.2	497.5	488.1
30°	421.9	431.4	442.7	454.0	462.8	471.6	476.1	480.6	474.0	467.3	460.6
32.5°	401.3	406.9	415.9	425.0	433.4	441.9	446.8	451.8	445.7	439.6	434.3
35°	381.4	383.0	389.9	396.7	405.1	413.5	419.4	425.4	421.0	416.7	411.8
37.5°	361.6	359.9	364.9	369.8	378.1	386.5	393.8	401.2	399.2	397.2	392.7
40°	341.3	337.5	341.0	344.6	352.6	360.7	369.2	377.7	378.2	378.6	374.8
42.5°	320.8	315.7	318.6	321.5	329.1	336.8	345.9	355.1	357.5	360.0	356.7
45°	301.7	296.8	299.2	301.7	308.9	316.2	325.7	335.2	338.7	342.2	339.2
47.5°	285.4	281.3	283.6	285.8	292.9	300.0	309.4	318.8	322.8	326.8	324.8
50°	270.8	267.1	270.7	274.3	281.0	287.7	296.1	304.5	309.7	314.9	314.7
52.5°	259.6	256.0	261.4	266.8	272.9	279.0	286.8	294.7	300.8	307.0	308.1
55°	251.6	245.8	253.4	261.1	267.7	274.3	281.1	288.0	294.5	301.0	302.6
57.5°	245.3	236.9	245.1	253.3	261.1	268.9	275.6	282.4	289.0	295.6	297.1
60°	239.5	228.5	235.7	242.9	251.8	260.8	267.6	274.5	281.1	287.8	289.5
62.5°	232.8	219.1	223.7	228.3	238.7	249.1	256.4	263.8	269.8	275.9	277.5
65°	*223.7*	*209.1*	*210.9*	*212.6*	*223.8*	*234.9*	*241.9*	*249.0*	*254.3*	*259.6*	*261.3*
67.5°	211.4	199.3	198.7	198.2	208.4	218.7	225.4	232.0	236.6	241.2	242.9
70°	196.2	187.5	185.6	183.7	192.7	201.8	207.5	213.3	217.4	221.6	223.2
72.5°	178.0	172.1	169.3	166.5	173.6	180.7	185.9	191.1	195.2	199.3	201.1
75°	155.7	151.2	148.5	145.8	151.1	156.4	161.1	165.8	169.5	173.2	175.1
77.5°	132.9	129.3	126.6	123.8	128.1	132.4	136.5	140.5	144.4	148.3	150.1
80°	106.5	103.4	101.2	98.9	102.4	106.0	109.4	112.8	115.8	118.7	121.2
82.5°	79.1	77.6	76.0	74.4	74.1	73.8	72.6	71.4	77.7	84.0	88.1
85°	51.5	49.9	48.0	46.2	44.7	43.1	39.8	36.5	42.4	48.4	53.5
87.5°	22.8	22.2	21.8	21.5	21.4	21.3	18.8	16.3	18.8	21.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	512.0	510.4	508.9	507.4	505.9	504.1	505.9	507.4	508.9	510.4	512.0
5°	480.9	478.9	476.9	475.4	473.9	472.4	473.9	475.4	476.9	478.9	480.9
7.5°	462.1	459.8	457.6	456.2	454.9	453.8	454.9	456.2	457.6	459.8	462.1
10°	456.4	454.3	452.1	451.0	449.8	449.4	449.8	451.0	452.1	454.3	456.4
12.5°	464.8	462.4	460.0	459.0	458.1	457.9	458.1	459.0	460.0	462.4	464.8
15°	482.1	478.8	475.5	474.2	472.9	472.8	472.9	474.2	475.5	478.8	482.1
17.5°	498.8	493.9	488.9	487.3	485.6	485.4	485.6	487.3	488.9	493.9	498.8
20°	508.9	502.6	496.2	494.2	492.2	491.6	492.2	494.2	496.2	502.6	508.9
22.5°	509.3	502.6	495.9	493.7	491.4	490.5	491.4	493.7	495.9	502.6	509.3
25°	499.0	493.2	487.4	485.3	483.2	482.0	483.2	485.3	487.4	493.2	499.0
27.5°	478.8	474.9	471.0	470.0	469.1	468.8	469.1	470.0	471.0	474.9	478.8
30°	453.9	451.9	449.9	449.9	449.9	450.2	449.9	449.9	449.9	451.9	453.9
32.5°	428.9	427.6	426.3	426.5	426.7	427.0	426.7	426.5	426.3	427.6	428.9
35°	406.9	404.9	402.9	402.5	402.1	401.8	402.1	402.5	402.9	404.9	406.9
37.5°	388.1	384.5	380.9	379.0	377.1	376.1	377.1	379.0	380.9	384.5	388.1
40°	370.9	365.7	360.5	356.9	353.4	351.4	353.4	356.9	360.5	365.7	370.9
42.5°	353.5	347.0	340.5	335.4	330.2	326.8	330.2	335.4	340.5	347.0	353.5
45°	336.3	328.9	321.5	315.4	309.4	305.5	309.4	315.4	321.5	328.9	336.3
47.5°	322.8	316.2	309.5	304.0	298.4	294.7	298.4	304.0	309.5	316.2	322.8
50°	314.7	309.4	304.1	298.9	293.8	290.2	293.8	298.9	304.1	309.4	314.7
52.5°	309.2	304.9	300.6	296.0	291.4	288.1	291.4	296.0	300.6	304.9	309.2
55°	304.1	300.3	296.6	292.5	288.5	285.5	288.5	292.5	296.6	300.3	304.1
57.5°	298.7	294.9	291.1	287.1	283.1	280.0	283.1	287.1	291.1	294.9	298.7
60°	291.2	287.5	283.8	279.6	275.5	272.3	275.5	279.6	283.8	287.5	291.2
62.5°	279.2	275.8	272.5	268.1	263.8	259.9	263.8	268.1	272.5	275.8	279.2
65°	*263.0*	*259.8*	*256.5*	*252.3*	*248.1*	*244.8*	*248.1*	*252.3*	*256.5*	*259.8*	*263.0*
67.5°	244.5	241.5	238.6	234.7	230.8	227.8	230.8	234.7	238.6	241.5	244.5
70°	224.7	222.3	219.9	216.2	212.4	209.0	212.4	216.2	219.9	222.3	224.7
72.5°	203.0	201.0	199.0	195.4	191.9	188.6	191.9	195.4	199.0	201.0	203.0
75°	177.1	176.1	175.1	172.1	169.1	166.0	169.1	172.1	175.1	176.1	177.1
77.5°	152.0	150.6	149.2	146.2	143.1	140.6	143.1	146.2	149.2	150.6	152.0
80°	123.6	123.0	122.4	118.3	114.2	109.5	114.2	118.3	122.4	123.0	123.6
82.5°	92.3	92.0	91.7	88.3	84.8	81.8	84.8	88.3	91.7	92.0	92.3
85°	58.6	58.2	57.7	55.1	52.4	49.6	52.4	55.1	57.7	58.2	58.6
87.5°	25.4	24.9	24.3	23.0	21.6	20.2	21.6	23.0	24.3	24.9	25.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	514.0	516.1	518.6	521.1	524.3	527.5	530.7	534.0	537.6	541.3	545.4
5°	483.6	486.4	490.4	494.4	499.6	504.8	510.5	516.2	522.7	529.2	536.9
7.5°	465.4	468.8	473.5	478.2	484.6	490.9	498.1	505.3	513.8	522.3	532.6
10°	460.2	463.9	469.6	475.3	482.4	489.5	497.3	505.0	513.5	522.1	532.9
12.5°	469.6	474.4	481.6	488.9	496.3	503.7	509.7	515.8	521.4	527.1	535.9
15°	489.4	496.7	507.0	517.3	523.7	530.2	531.7	533.3	532.5	531.8	536.0
17.5°	509.5	520.3	533.9	547.6	552.7	557.9	553.0	548.1	538.8	529.5	527.9
20°	522.1	535.2	550.8	566.4	568.9	571.2	560.9	550.6	534.4	518.3	511.0
22.5°	522.9	536.4	551.3	566.2	564.8	563.4	549.9	536.5	518.0	499.6	488.9
25°	511.0	523.0	535.3	547.5	542.6	537.6	524.4	511.2	494.6	478.0	465.7
27.5°	488.1	497.5	506.2	514.9	509.4	503.9	493.3	482.6	469.1	455.4	443.5
30°	460.6	467.3	474.0	480.6	476.1	471.6	462.8	454.0	442.7	431.4	421.9
32.5°	434.3	439.6	445.7	451.8	446.8	441.9	433.4	425.0	415.9	406.9	401.3
35°	411.8	416.7	421.0	425.4	419.4	413.5	405.1	396.7	389.9	383.0	381.4
37.5°	392.7	397.2	399.2	401.2	393.8	386.5	378.1	369.8	364.9	359.9	361.6
40°	374.8	378.6	378.2	377.7	369.2	360.7	352.6	344.6	341.0	337.5	341.3
42.5°	356.7	360.0	357.5	355.1	345.9	336.8	329.1	321.5	318.6	315.7	320.8
45°	339.2	342.2	338.7	335.2	325.7	316.2	308.9	301.7	299.2	296.8	301.7
47.5°	324.8	326.8	322.8	318.8	309.4	300.0	292.9	285.8	283.6	281.3	285.4
50°	314.7	314.9	309.7	304.5	296.1	287.7	281.0	274.3	270.7	267.1	270.8
52.5°	308.1	307.0	300.8	294.7	286.8	279.0	272.9	266.8	261.4	256.0	259.6
55°	302.6	301.0	294.5	288.0	281.1	274.3	267.7	261.1	253.4	245.8	251.6
57.5°	297.1	295.6	289.0	282.4	275.6	268.9	261.1	253.3	245.1	236.9	245.3
60°	289.5	287.8	281.1	274.5	267.6	260.8	251.8	242.9	235.7	228.5	239.5
62.5°	277.5	275.9	269.8	263.8	256.4	249.1	238.7	228.3	223.7	219.1	232.8
65°	*261.3*	*259.6*	*254.3*	*249.0*	*241.9*	*234.9*	*223.8*	*212.6*	*210.9*	*209.1*	*223.7*
67.5°	242.9	241.2	236.6	232.0	225.4	218.7	208.4	198.2	198.7	199.3	211.4
70°	223.2	221.6	217.4	213.3	207.5	201.8	192.7	183.7	185.6	187.5	196.2
72.5°	201.1	199.3	195.2	191.1	185.9	180.7	173.6	166.5	169.3	172.1	178.0
75°	175.1	173.2	169.5	165.8	161.1	156.4	151.1	145.8	148.5	151.2	155.7
77.5°	150.1	148.3	144.4	140.5	136.5	132.4	128.1	123.8	126.6	129.3	132.9
80°	121.2	118.7	115.8	112.8	109.4	106.0	102.4	98.9	101.2	103.4	106.5
82.5°	88.1	84.0	77.7	71.4	72.6	73.8	74.1	74.4	76.0	77.6	79.1
85°	53.5	48.4	42.4	36.5	39.8	43.1	44.7	46.2	48.0	49.9	51.5
87.5°	23.3	21.3	18.8	16.3	18.8	21.3	21.4	21.5	21.8	22.2	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1201247
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	549.5	554.5	559.1	563.7	568.4	573.3	578.2	583.1	588.0	592.5	597.1
5°	544.6	553.4	562.4	571.9	581.4	591.5	601.7	611.7	621.8	632.0	642.1
7.5°	542.9	554.3	566.5	579.7	593.0	608.0	623.0	638.4	653.9	670.6	687.3
10°	543.7	556.0	571.1	586.8	602.4	620.7	638.9	659.3	679.6	700.8	721.9
12.5°	544.8	556.2	572.0	589.8	607.5	629.0	650.5	673.6	696.7	719.9	743.1
15°	540.2	549.4	566.9	587.4	607.9	632.7	657.5	682.5	707.6	731.8	756.0
17.5°	526.4	532.0	552.7	577.3	602.0	630.7	659.5	686.8	714.2	738.7	763.2
20°	503.8	505.3	529.3	559.9	590.4	625.3	660.1	690.2	720.2	745.7	771.2
22.5°	478.2	475.3	502.6	539.4	576.2	618.6	661.0	694.7	728.4	754.4	780.5
25°	453.3	445.4	473.4	516.5	559.6	612.0	664.4	702.9	741.4	766.9	792.4
27.5°	431.6	422.0	447.5	495.6	543.8	607.6	671.4	715.7	759.9	784.3	808.6
30°	412.5	404.9	426.4	478.1	529.9	605.5	681.0	732.2	783.4	806.9	830.4
32.5°	395.7	392.4	409.6	463.1	516.5	602.9	689.3	749.5	809.7	832.9	856.2
35°	379.9	381.3	395.7	448.3	500.9	598.1	695.4	769.2	842.9	865.3	887.5
37.5°	363.3	368.4	381.0	430.8	480.7	589.9	699.0	791.2	883.4	911.9	940.3
40°	345.2	353.0	364.3	410.1	455.8	578.5	701.3	819.2	937.1	978.5	1020.0
42.5°	325.9	335.7	346.2	387.1	428.0	566.8	705.6	855.9	1006.1	1065.9	1125.6
45°	306.7	316.2	326.8	362.7	398.6	555.9	713.3	904.1	1094.9	1175.5	1256.2
47.5°	289.6	297.8	311.5	343.4	375.4	546.9	718.5	955.4	1192.3	1305.9	1419.4
50°	274.5	284.0	302.1	330.6	359.2	537.1	715.1	1003.0	1291.0	1462.2	1633.3
52.5°	263.3	276.6	297.3	322.2	347.1	520.6	694.1	1034.0	1373.9	1626.4	1878.8
55°	257.3	277.3	296.6	316.1	335.5	493.1	650.7	1027.2	1403.6	1771.9	2140.3
57.5°	253.8	278.1	295.1	308.8	322.6	454.4	586.3	979.2	1372.1	1875.1	2378.1
60°	250.4	275.7	287.0	297.8	308.6	404.2	499.8	889.9	1280.0	1900.9	2521.8
62.5°	246.5	270.0	271.3	278.5	285.7	344.1	402.4	769.1	1135.8	1792.3	2448.8
65°	*238.2*	*256.1*	*255.9*	*259.3*	*262.7*	*290.0*	*317.2*	*645.9*	*974.7*	*1638.7*	*2302.8*
67.5°	223.5	233.5	234.0	232.1	230.2	238.0	245.7	525.3	804.8	1455.9	2107.0
70°	204.8	208.1	208.1	199.3	190.5	188.3	186.1	413.6	641.0	1256.5	1871.9
72.5°	183.9	183.9	181.8	169.4	156.9	150.2	143.6	316.2	488.8	1040.2	1591.7
75°	160.3	161.1	151.4	137.5	123.6	117.5	111.5	229.5	347.5	792.4	1237.3
77.5°	136.6	137.0	121.1	107.6	94.1	89.9	85.8	155.5	225.2	554.6	884.0
80°	109.6	109.6	90.7	79.2	67.8	66.1	64.3	100.2	136.0	357.3	578.6
82.5°	80.6	79.7	63.5	55.1	46.6	46.3	46.0	61.6	77.3	206.8	336.3
85°	53.1	51.9	39.8	33.7	27.5	27.7	27.8	32.9	38.1	93.0	148.0
87.5°	23.4	21.9	16.9	14.4	11.9	12.0	12.2	13.7	15.1	30.5	45.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1201247
CATALOG NUMBER: GWC-SB1A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	*555.3*	555.3	555.3
2.5°	599.4	601.7	604.9	608.1	610.0	611.9	612.9	613.9	*613.4*	613.9	612.9
5°	650.0	657.9	665.8	673.6	677.9	682.1	684.7	687.3	*689.3*	687.3	684.7
7.5°	700.1	713.0	724.5	736.1	743.1	750.0	753.8	757.6	*759.4*	757.6	753.8
10°	737.1	752.3	765.9	779.5	787.7	795.9	799.5	803.2	*804.6*	803.2	799.5
12.5°	759.6	776.0	788.3	800.5	806.5	812.5	814.5	816.5	*816.7*	816.5	814.5
15°	770.2	784.4	792.1	799.8	800.0	800.2	798.1	796.0	*793.5*	796.0	798.1
17.5°	772.8	782.4	782.6	782.7	774.1	765.5	757.5	749.6	*744.0*	749.6	757.5
20°	774.6	777.9	767.8	757.7	738.6	719.6	705.7	691.8	*683.3*	691.8	705.7
22.5°	776.1	771.7	750.7	729.8	701.7	673.7	656.4	639.0	*629.6*	639.0	656.4
25°	778.6	764.7	732.9	701.0	667.0	633.0	614.7	596.6	*587.6*	596.6	614.7
27.5°	783.8	759.1	716.9	674.7	637.0	599.3	581.4	563.5	*555.0*	563.5	581.4
30°	793.5	756.6	704.7	652.8	613.5	574.2	557.6	540.9	*533.1*	540.9	557.6
32.5°	805.7	755.1	696.4	637.7	600.8	563.8	550.8	537.7	*532.0*	537.7	550.8
35°	825.7	763.8	702.6	641.4	615.8	590.2	587.1	584.1	*583.6*	584.1	587.1
37.5°	867.5	794.7	739.1	683.5	681.8	680.2	694.1	708.0	*715.3*	708.0	694.1
40°	940.8	861.7	820.3	778.9	808.1	837.3	871.2	905.1	*922.0*	905.1	871.2
42.5°	1047.1	968.6	944.8	920.9	984.6	1048.3	1109.9	1171.5	*1207.7*	1171.5	1109.9
45°	1185.6	1115.0	1104.5	1094.0	1196.0	1298.0	1399.3	1500.5	*1562.0*	1500.5	1399.3
47.5°	1350.7	1282.1	1280.0	1277.8	1425.0	1572.1	1720.3	1868.5	*1955.6*	1868.5	1720.3
50°	1548.5	1463.7	1464.1	1464.5	1654.1	1843.7	2039.4	2235.1	*2353.4*	2235.1	2039.4
52.5°	1776.2	1673.6	1663.2	1652.8	1879.3	2105.8	2347.9	2590.0	*2731.8*	2590.0	2347.9
55°	2038.9	1937.4	1897.0	1856.5	2108.6	2360.7	2649.3	2937.9	*3106.6*	2937.9	2649.3
57.5°	2322.8	2267.6	2186.4	2105.3	2359.9	2614.4	2941.3	3268.2	*3477.3*	3268.2	2941.3
60°	2607.6	2693.4	2592.6	2491.8	2732.7	2973.6	3323.6	3673.6	*3899.6*	3673.6	3323.6
62.5°	2683.2	2917.6	2906.3	2894.9	3115.5	3336.2	3669.2	4002.2	*4211.1*	4002.2	3669.2
65°	*2522.7*	*2742.7*	*2786.3*	*2829.8*	*3110.2*	*3390.7*	*3713.6*	*4036.4*	*4214.3*	*4036.4*	*3713.6*
67.5°	2316.3	2525.5	2545.9	2566.3	2858.5	3150.7	3475.0	3799.2	*3938.6*	3799.2	3475.0
70°	2099.5	2327.1	2336.2	2345.4	2606.7	2868.0	3147.0	3426.1	*3503.5*	3426.1	3147.0
72.5°	1852.9	2114.1	2120.6	2127.2	2331.6	2536.1	2745.1	2954.0	*2961.9*	2954.0	2745.1
75°	1507.6	1777.9	1802.2	1826.4	1985.5	2144.5	2291.7	2438.8	*2399.4*	2438.8	2291.7
77.5°	1136.3	1388.7	1423.4	1458.1	1579.1	1700.0	1804.3	1908.7	*1840.9*	1908.7	1804.3
80°	790.9	1003.1	1046.3	1089.5	1180.8	1272.1	1326.9	1381.7	*1272.7*	1381.7	1326.9
82.5°	481.5	626.6	674.8	723.1	785.9	848.8	871.6	894.5	*808.8*	894.5	871.6
85°	225.0	302.0	343.0	384.1	435.7	487.3	500.3	513.3	*444.7*	513.3	500.3
87.5°	71.7	97.6	120.5	143.4	169.2	195.0	196.1	197.2	*165.6*	197.2	196.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1201247
CATALOG NUMBER: GWC-SB1A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	611.9	610.0	608.1	604.9	601.7	599.4	597.1
5°	682.1	677.9	673.6	665.8	657.9	650.0	642.1
7.5°	750.0	743.1	736.1	724.5	713.0	700.1	687.3
10°	795.9	787.7	779.5	765.9	752.3	737.1	721.9
12.5°	812.5	806.5	800.5	788.3	776.0	759.6	743.1
15°	800.2	800.0	799.8	792.1	784.4	770.2	756.0
17.5°	765.5	774.1	782.7	782.6	782.4	772.8	763.2
20°	719.6	738.6	757.7	767.8	777.9	774.6	771.2
22.5°	673.7	701.7	729.8	750.7	771.7	776.1	780.5
25°	633.0	667.0	701.0	732.9	764.7	778.6	792.4
27.5°	599.3	637.0	674.7	716.9	759.1	783.8	808.6
30°	574.2	613.5	652.8	704.7	756.6	793.5	830.4
32.5°	563.8	600.8	637.7	696.4	755.1	805.7	856.2
35°	590.2	615.8	641.4	702.6	763.8	825.7	887.5
37.5°	680.2	681.8	683.5	739.1	794.7	867.5	940.3
40°	837.3	808.1	778.9	820.3	861.7	940.8	1020.0
42.5°	1048.3	984.6	920.9	944.8	968.6	1047.1	1125.6
45°	1298.0	1196.0	1094.0	1104.5	1115.0	1185.6	1256.2
47.5°	1572.1	1425.0	1277.8	1280.0	1282.1	1350.7	1419.4
50°	1843.7	1654.1	1464.5	1464.1	1463.7	1548.5	1633.3
52.5°	2105.8	1879.3	1652.8	1663.2	1673.6	1776.2	1878.8
55°	2360.7	2108.6	1856.5	1897.0	1937.4	2038.9	2140.3
57.5°	2614.4	2359.9	2105.3	2186.4	2267.6	2322.8	2378.1
60°	2973.6	2732.7	2491.8	2592.6	2693.4	2607.6	2521.8
62.5°	3336.2	3115.5	2894.9	2906.3	2917.6	2683.2	2448.8
65°	*3390.7*	*3110.2*	*2829.8*	*2786.3*	*2742.7*	*2522.7*	*2302.8*
67.5°	3150.7	2858.5	2566.3	2545.9	2525.5	2316.3	2107.0
70°	2868.0	2606.7	2345.4	2336.2	2327.1	2099.5	1871.9
72.5°	2536.1	2331.6	2127.2	2120.6	2114.1	1852.9	1591.7
75°	2144.5	1985.5	1826.4	1802.2	1777.9	1507.6	1237.3
77.5°	1700.0	1579.1	1458.1	1423.4	1388.7	1136.3	884.0
80°	1272.1	1180.8	1089.5	1046.3	1003.1	790.9	578.6
82.5°	848.8	785.9	723.1	674.8	626.6	481.5	336.3
85°	487.3	435.7	384.1	343.0	302.0	225.0	148.0
87.5°	195.0	169.2	143.4	120.5	97.6	71.7	45.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0


HS
SS

0

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

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

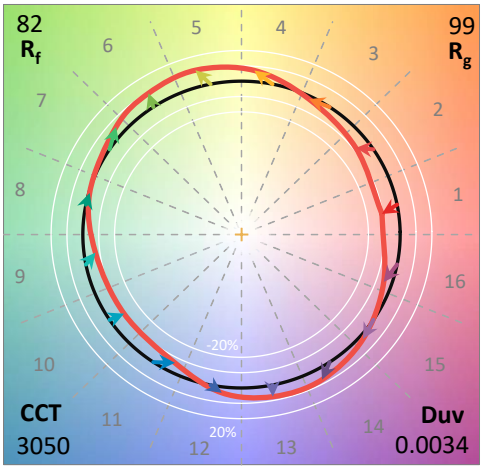
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050
CIE u':	0.2476
CIE v':	0.5251
Duv:	0.0034
CIE x:	0.4383
CIE y:	0.4131
CIE z:	0.1487
Peak Wavelength (nm):	603
Dominant Wavelength (nm):	581
Purity:	55.55201
Rf:	81.5
Rg:	99.2

CRI (Ra):	81.0
R1:	79.6
R2:	85.6
R3:	92.0
R4:	82.6
R5:	78.9
R6:	81.7
R7:	85.2
R8:	62.0
R9:	7.1
R10:	67.0
R11:	82.7
R12:	63.2
R13:	80.3
R14:	95.0
R15:	71.7



Test Conditions

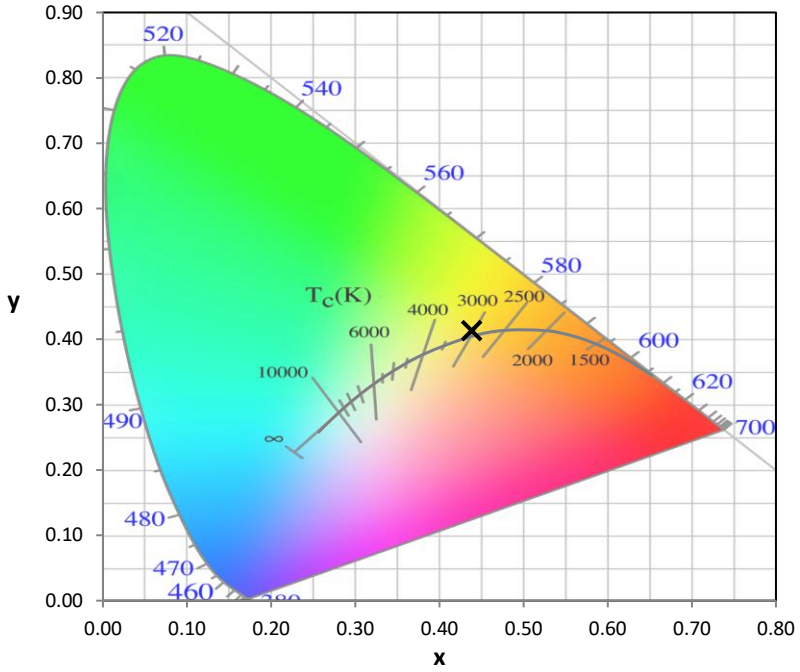
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

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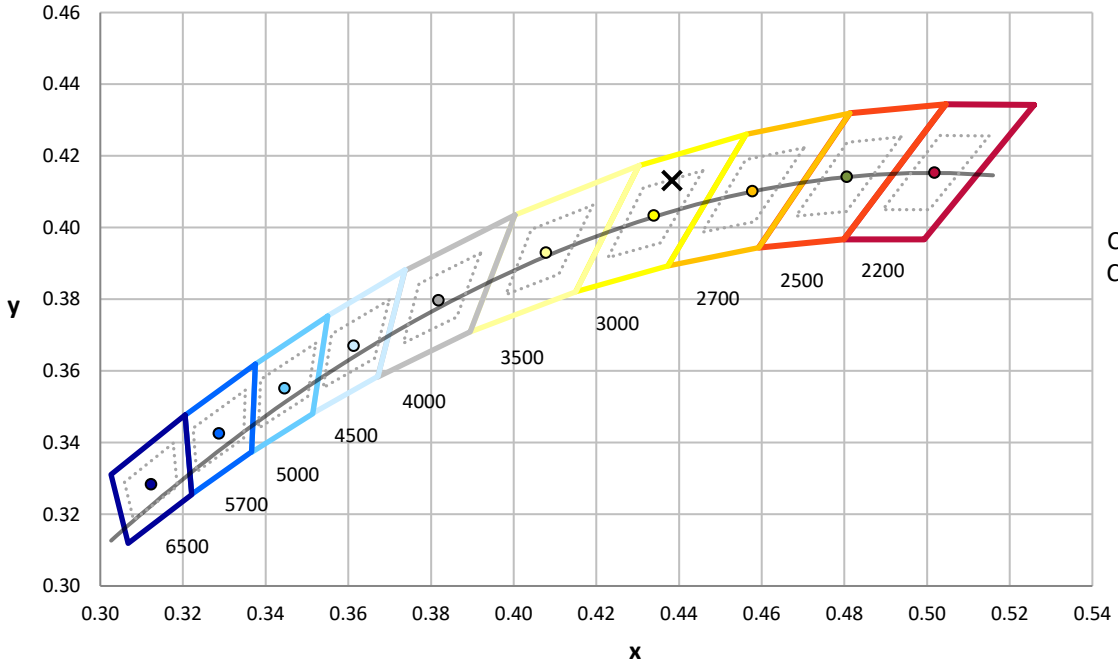
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



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

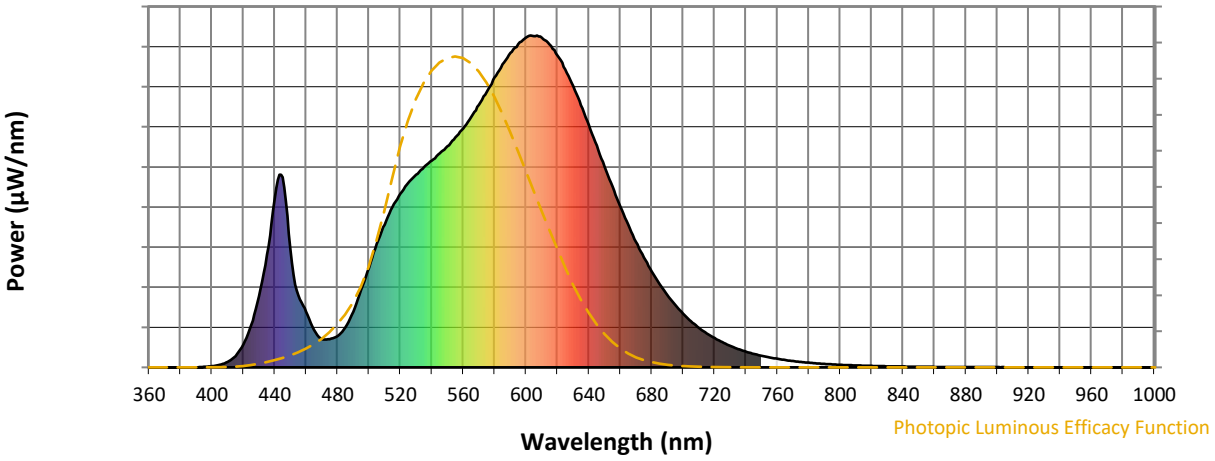


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

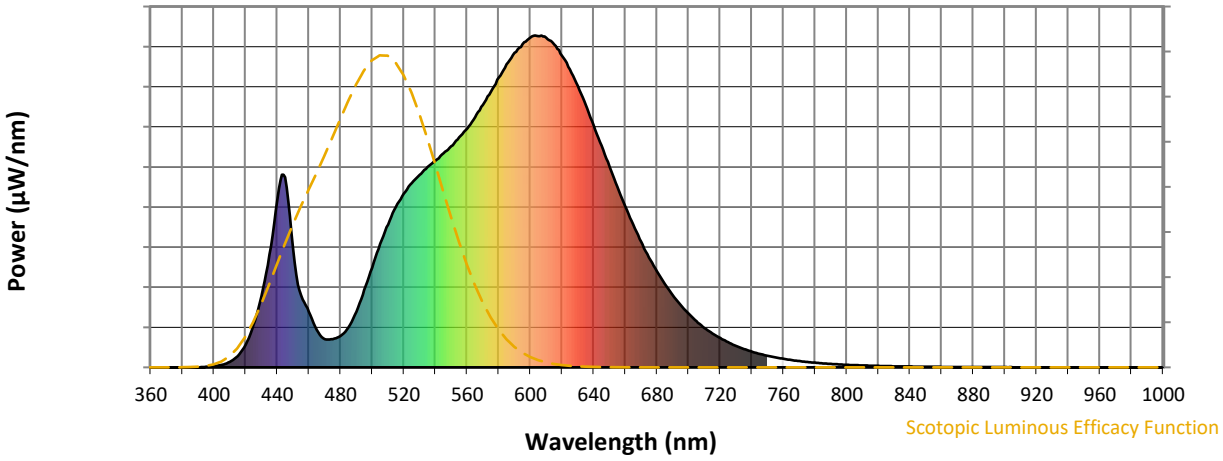


Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength

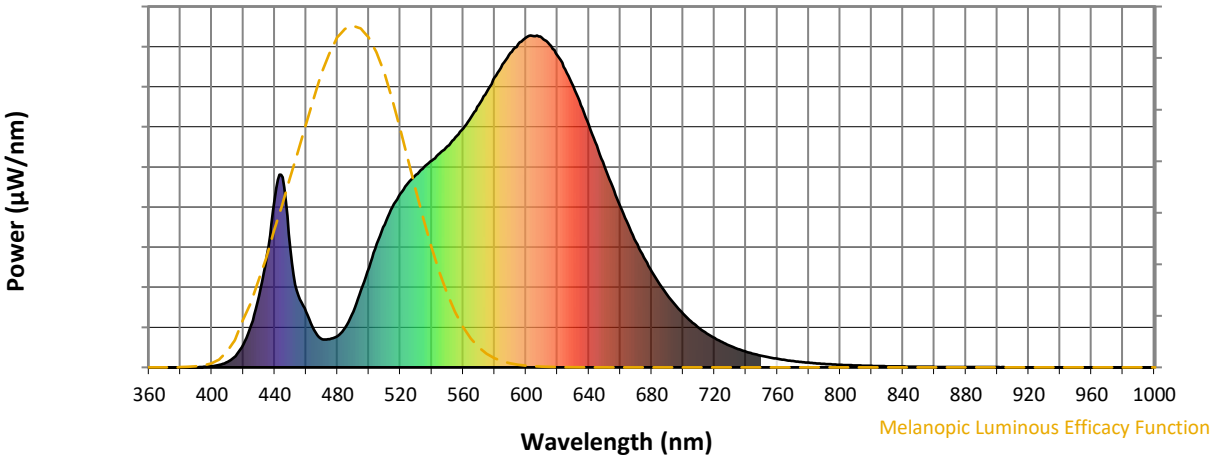


Scotopic Lumens: NR **S/P: 1.27**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

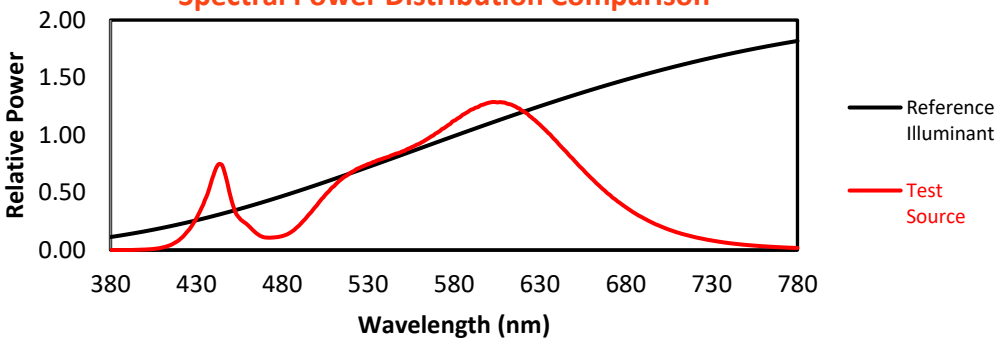
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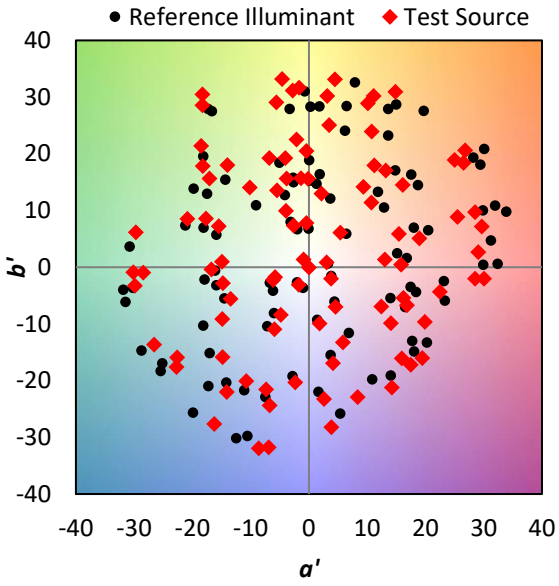
Summary

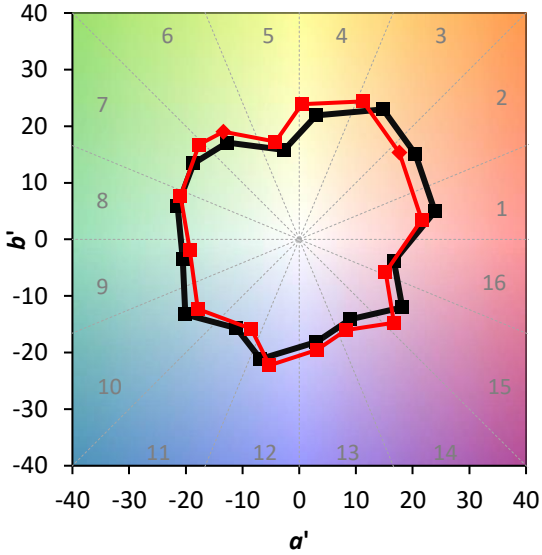
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

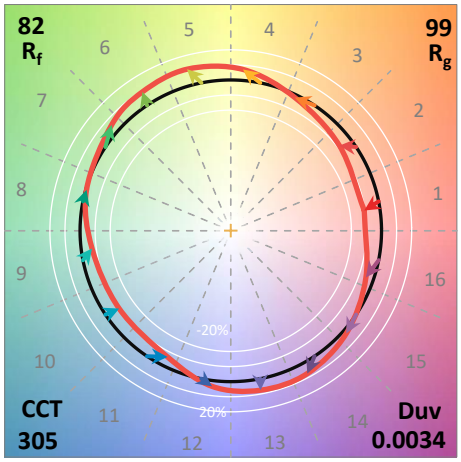
Spectral Power Distribution Comparison

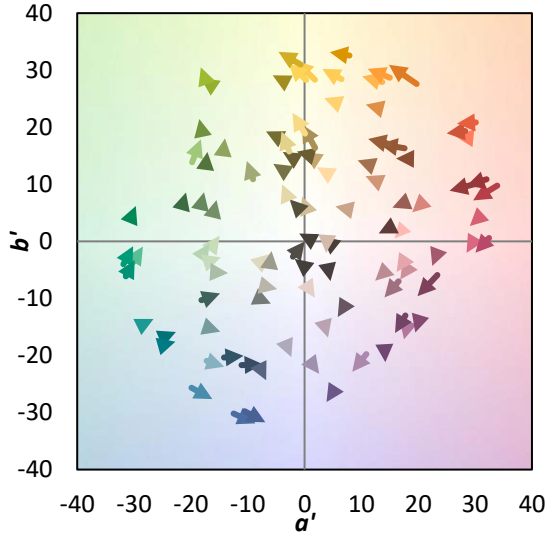


Color Vector Graphics







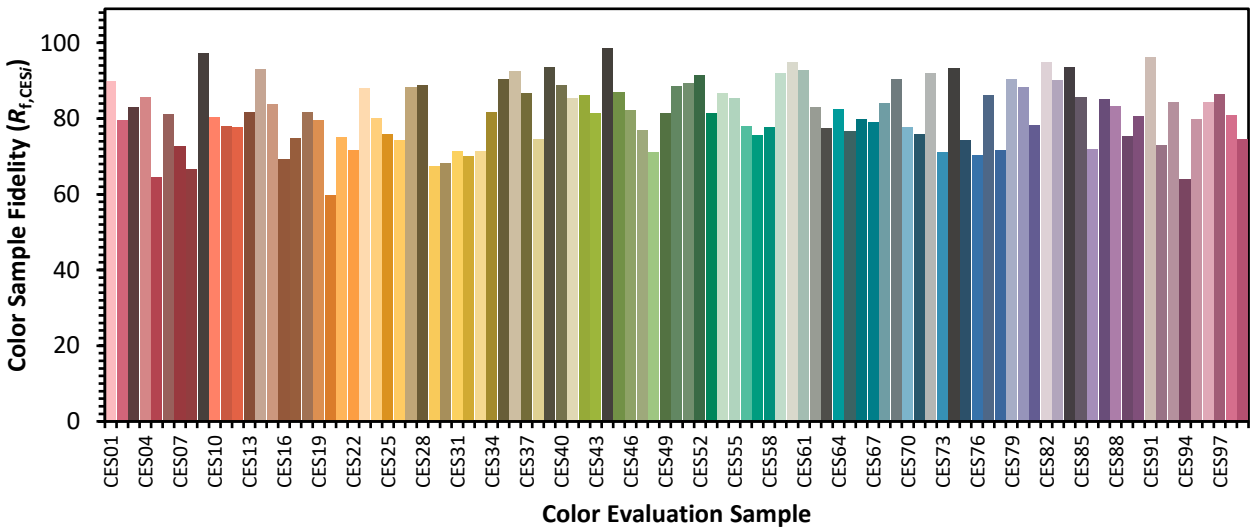


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Individual Sample Fidelity Index ($R_{f,i}$)

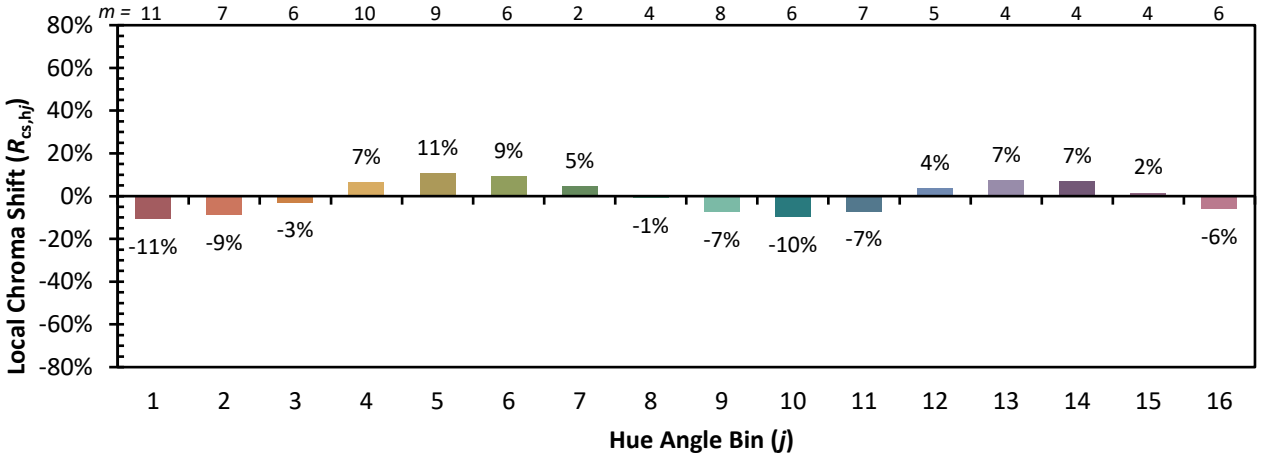
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

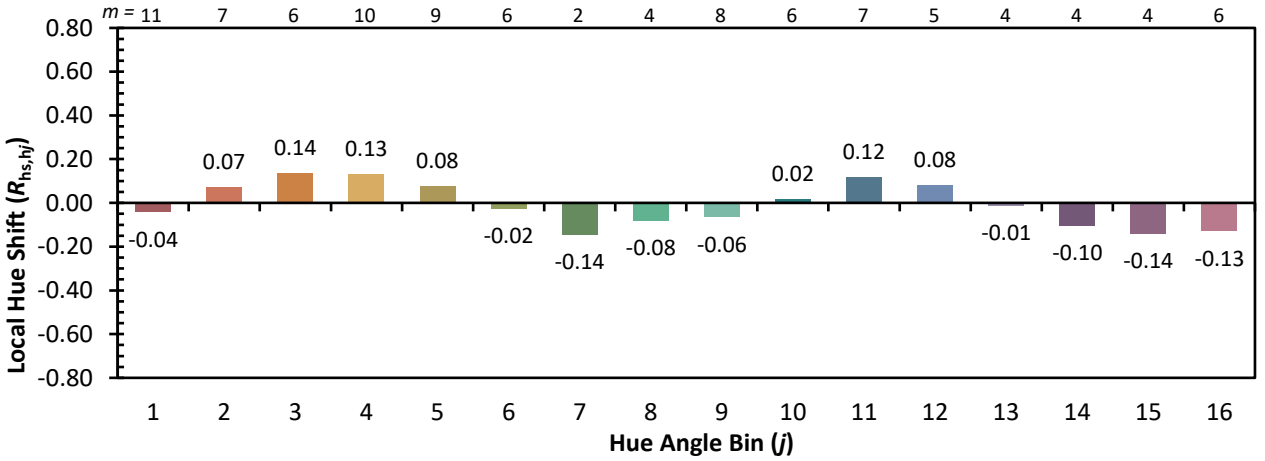


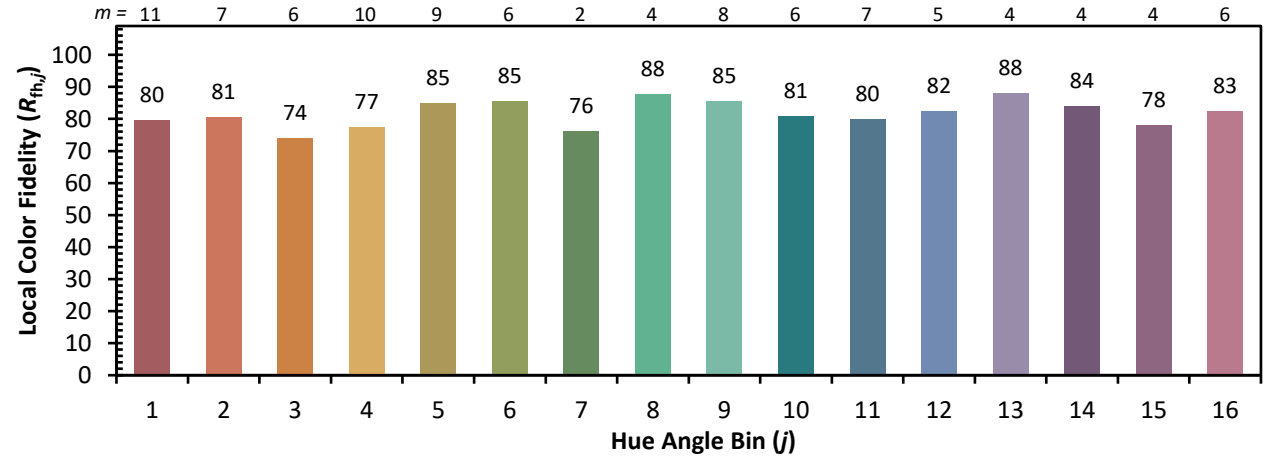
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Color Rendition by Hue-Angle Bin



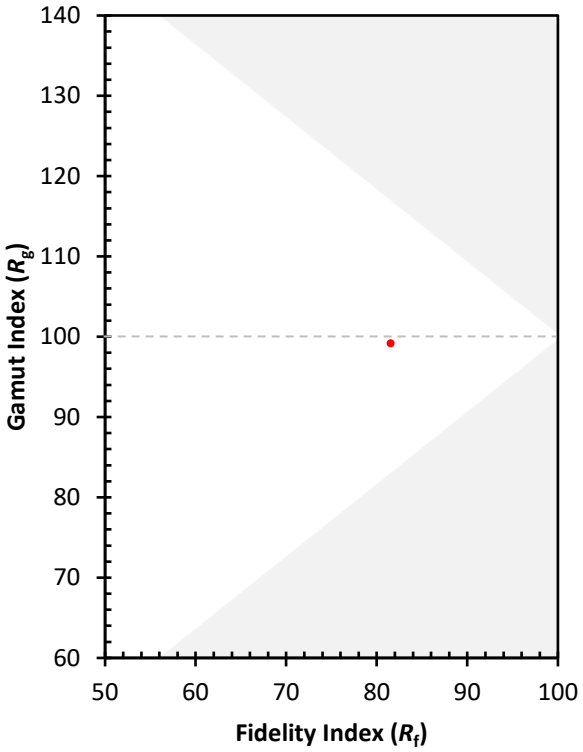


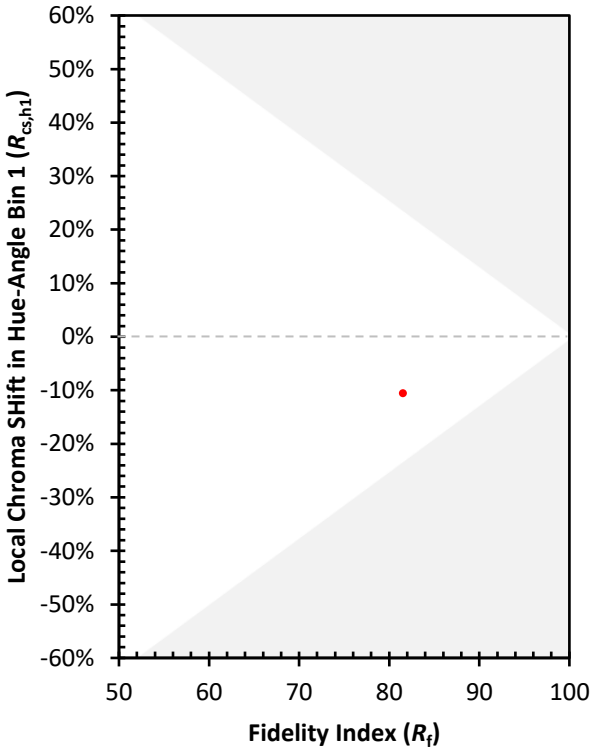


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Measure Comparisons





(END OF REPORT)