

Signify Classified - Internal
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: McGRAW-EDISON

Report Number: P640461

Luminaire Tested: GWS-SA5D-830-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-830-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14449 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

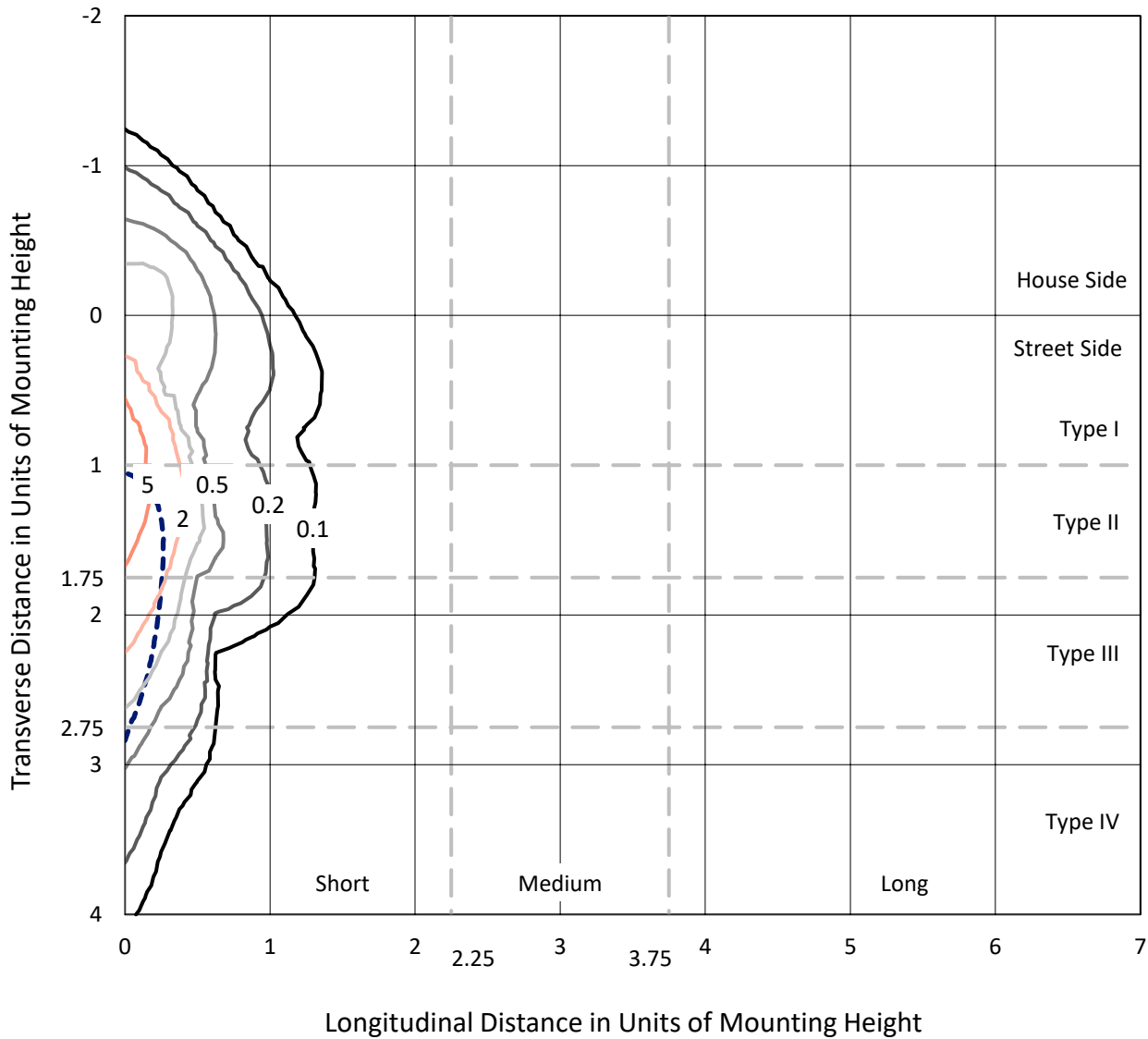
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

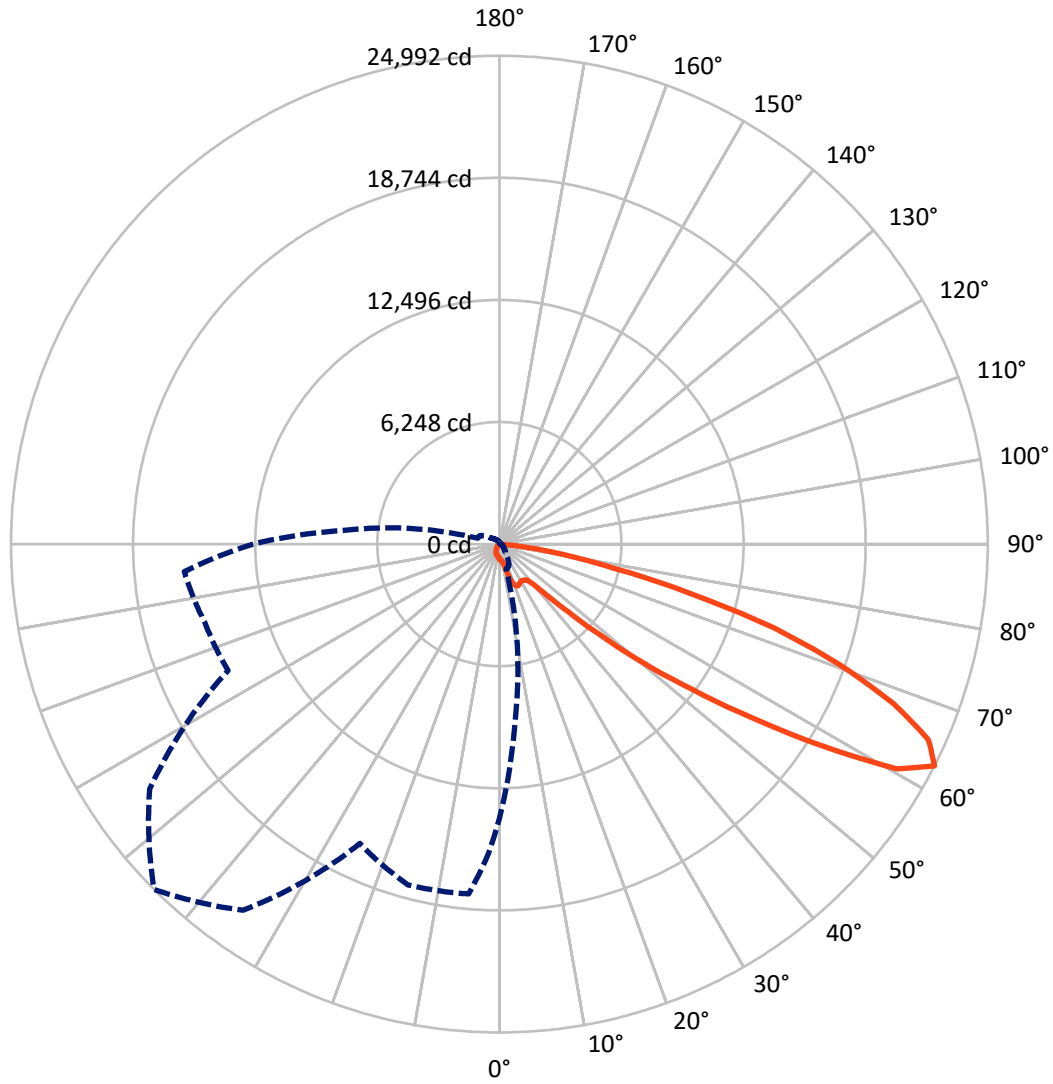
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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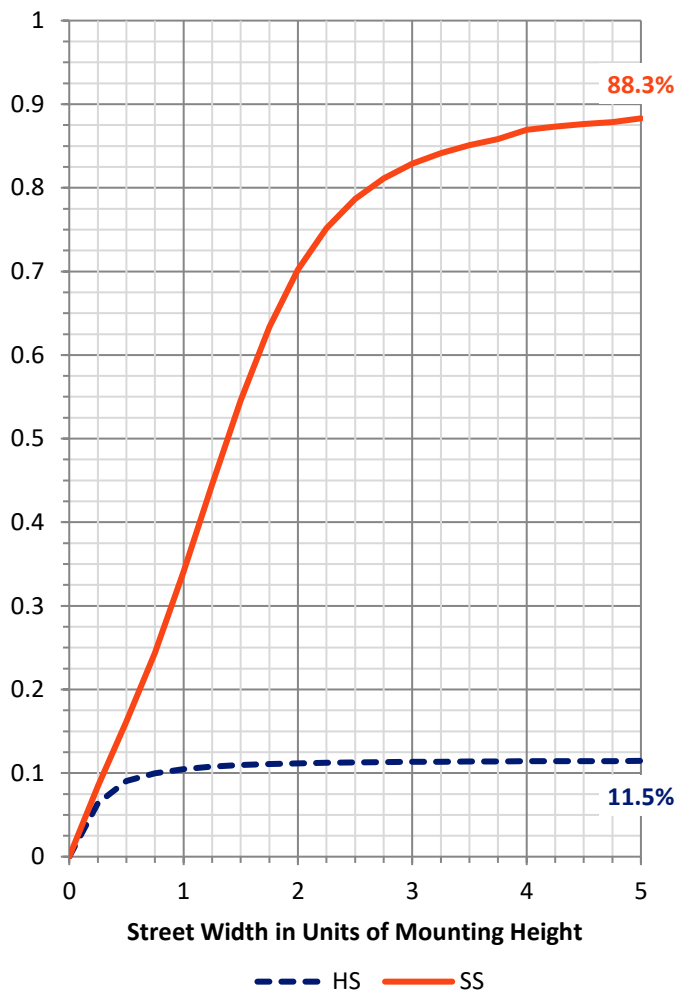
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1678.8	0.0	1678.8
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	12770.2	0.0	12770.2
	% Fixture	88.4	0.0	88.4
Total	Lumens	14449.0	0.0	14449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	0.4
10°-20°	221.8	1.5
20°-30°	501.1	3.5
30°-40°	863.2	6.0
40°-50°	1628.3	11.3
50°-60°	3635.5	25.2
60°-70°	4862.4	33.7
70°-80°	2438.4	16.9
80°-90°	233.7	1.6
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°	14449.0	100.0
0°-180°	14449.0	100.0

Coefficient of Utilization



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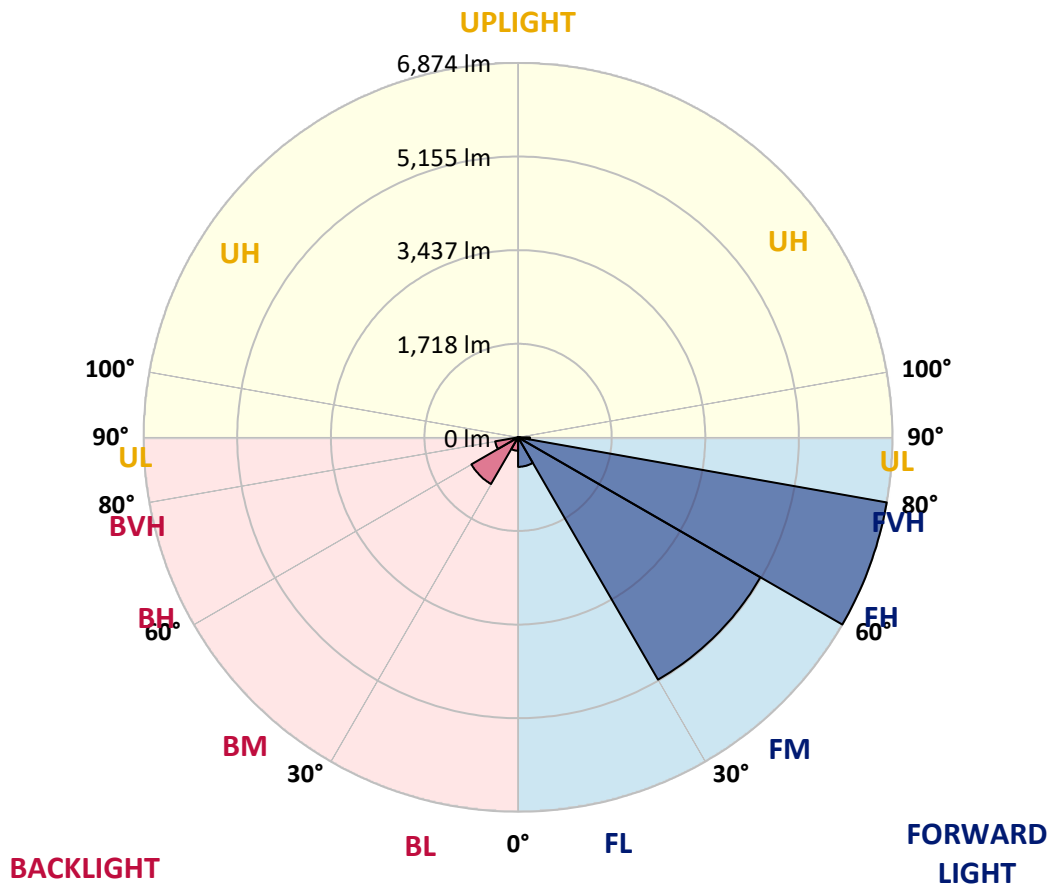
CATALOG NUMBER: GWS-SA5D-830-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.1	3.7			
FM (30°-60°)	5137.0	35.6			
FH (60°-80°)	6873.9	47.6			G3/7500
FVH (80°-90°)	218.2	1.5			G2/225
BL (0°-30°)	246.4	1.7	B1/500		
BM (30°-60°)	989.9	6.9	B1/1000		
BH (60°-80°)	426.9	3.0	B1/500		G1/500
BVH (80°-90°)	15.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	740.8	739.1	735.7	725.4	716.8	711.7	701.4	701.4	699.7	696.3	689.5
5°	716.8	710.0	703.2	684.3	663.8	651.8	638.1	636.4	636.4	633.0	631.3
7.5°	679.2	672.4	663.8	633.0	614.2	602.2	590.2	588.5	583.4	583.4	583.4
10°	658.7	648.4	634.7	600.5	581.7	571.4	562.9	557.7	554.3	549.2	547.5
12.5°	703.2	684.3	655.2	593.7	568.0	554.3	544.0	540.6	530.4	523.5	518.4
15°	841.7	795.5	737.4	609.1	562.9	542.3	528.6	521.8	513.3	501.3	492.7
17.5°	1069.3	1002.5	905.0	658.7	557.7	532.1	515.0	503.0	491.0	477.3	467.1
20°	1384.1	1284.8	1168.5	749.3	557.7	520.1	499.6	484.2	467.1	451.7	439.7
22.5°	1784.4	1685.2	1486.7	903.3	564.6	504.7	480.7	460.2	439.7	426.0	412.3
25°	2232.6	2092.4	1907.6	1089.8	583.4	484.2	458.5	438.0	419.2	402.0	386.6
27.5°	2732.2	2579.9	2333.6	1355.0	624.5	463.6	434.6	415.7	398.6	381.5	361.0
30°	3192.4	3101.7	2850.3	1673.2	691.2	449.9	415.7	398.6	381.5	359.3	340.5
32.5°	3745.0	3584.2	3377.2	2035.9	780.1	436.3	400.3	376.4	362.7	342.2	321.6
35°	4301.0	4164.2	3892.2	2482.4	879.4	422.6	381.5	359.3	347.3	323.3	301.1
37.5°	4874.2	4843.4	4574.8	2976.9	976.9	407.2	359.3	345.6	333.6	306.2	280.6
40°	5438.7	5382.3	5134.2	3541.4	1036.8	390.1	340.5	331.9	318.2	287.4	258.3
42.5°	5979.4	5936.6	5695.4	4082.1	1028.2	374.7	321.6	311.4	301.1	270.3	234.4
45°	6643.2	6573.0	6268.5	4482.4	941.0	391.8	302.8	285.7	284.0	254.9	210.4
47.5°	7885.2	7654.3	7137.6	4790.3	853.7	436.3	282.3	261.8	273.7	239.5	186.5
50°	9625.2	9353.1	8605.5	5029.9	852.0	494.4	278.9	239.5	265.2	227.5	166.0
52.5°	11373.6	10894.6	9986.1	5158.2	915.3	537.2	309.7	217.3	254.9	215.6	150.6
55°	13048.5	12054.5	10564.4	4733.9	964.9	583.4	366.1	205.3	236.1	201.9	142.0
57.5°	14644.8	12987.0	10815.9	3745.0	1130.9	602.2	400.3	210.4	208.7	184.8	135.2
60°	14863.7	12942.5	10307.8	2177.9	1247.2	569.7	386.6	234.4	183.1	164.2	123.2
62.5°	14035.7	12081.9	9149.5	1358.4	1158.2	557.7	343.9	266.9	166.0	145.4	107.8
65°	12778.2	10732.1	7628.6	875.9	877.7	619.3	301.1	261.8	155.7	128.3	92.4
67.5°	10812.5	8981.9	6010.2	586.8	496.1	528.6	263.5	179.6	152.3	109.5	71.9
70°	7892.1	6393.4	3912.7	391.8	296.0	422.6	220.7	128.3	143.7	90.7	51.3
72.5°	5768.9	4295.9	2184.7	256.6	167.7	246.4	162.5	92.4	111.2	66.7	35.9
75°	4152.2	2956.3	1247.2	164.2	111.2	135.2	106.1	63.3	71.9	53.0	32.5
77.5°	1998.3	1440.5	566.3	90.7	75.3	68.4	56.5	39.3	44.5	47.9	29.1
80°	75.3	56.5	42.8	44.5	47.9	30.8	25.7	20.5	25.7	32.5	15.4
82.5°	0.0	0.0	0.0	5.1	6.8	8.6	10.3	8.6	10.3	12.0	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	694.6	691.2	694.6	698.0	701.4	704.9	699.7	703.2	706.6	698.0	701.4
5°	639.9	638.1	648.4	653.5	660.4	663.8	660.4	660.4	658.7	648.4	648.4
7.5°	591.9	593.7	602.2	614.2	622.7	627.9	624.5	622.7	617.6	602.2	602.2
10°	556.0	556.0	569.7	580.0	591.9	597.1	593.7	588.5	583.4	568.0	566.3
12.5°	526.9	526.9	537.2	554.3	568.0	574.8	573.1	566.3	557.7	542.3	540.6
15°	499.6	497.9	513.3	528.6	547.5	556.0	552.6	547.5	532.1	518.4	515.0
17.5°	472.2	470.5	484.2	504.7	525.2	537.2	535.5	523.5	509.8	492.7	489.3
20°	444.8	441.4	458.5	479.0	499.6	511.5	508.1	497.9	480.7	463.6	460.2
22.5°	417.4	415.7	427.7	444.8	463.6	473.9	472.2	463.6	446.5	431.1	431.1
25°	386.6	386.6	395.2	407.2	420.9	426.0	427.7	424.3	414.0	405.5	405.5
27.5°	361.0	355.9	359.3	362.7	369.5	378.1	378.1	381.5	383.2	379.8	381.5
30°	340.5	331.9	326.8	319.9	316.5	319.9	323.3	335.3	347.3	354.1	357.6
32.5°	316.5	306.2	292.6	273.7	261.8	258.3	268.6	290.8	313.1	328.5	337.0
35°	292.6	278.9	253.2	225.8	210.4	205.3	217.3	242.9	275.4	302.8	314.8
37.5°	268.6	249.8	213.9	181.3	164.2	160.8	172.8	200.2	237.8	275.4	290.8
40°	241.2	219.0	176.2	142.0	128.3	124.9	135.2	162.5	201.9	244.6	268.6
42.5°	213.9	186.5	142.0	112.9	99.2	99.2	112.9	133.4	169.4	215.6	244.6
45°	186.5	157.4	116.3	90.7	82.1	83.8	92.4	112.9	142.0	189.9	217.3
47.5°	160.8	135.2	95.8	75.3	68.4	70.1	80.4	97.5	121.5	164.2	193.3
50°	138.6	114.6	83.8	63.3	58.2	61.6	71.9	87.3	107.8	145.4	169.4
52.5°	124.9	102.7	77.0	54.7	51.3	54.7	65.0	78.7	97.5	128.3	152.3
55°	118.0	100.9	77.0	49.6	44.5	47.9	58.2	71.9	87.3	116.3	136.9
57.5°	116.3	104.4	82.1	44.5	37.6	41.1	51.3	65.0	80.4	106.1	123.2
60°	109.5	99.2	80.4	35.9	29.1	34.2	42.8	56.5	73.6	99.2	114.6
62.5°	95.8	87.3	70.1	29.1	22.2	25.7	35.9	49.6	66.7	90.7	107.8
65°	78.7	70.1	54.7	18.8	13.7	17.1	27.4	42.8	58.2	82.1	97.5
67.5°	58.2	49.6	37.6	12.0	6.8	12.0	22.2	35.9	53.0	73.6	89.0
70°	35.9	29.1	20.5	6.8	5.1	10.3	20.5	34.2	47.9	68.4	83.8
72.5°	20.5	13.7	8.6	3.4	5.1	10.3	20.5	34.2	46.2	65.0	78.7
75°	15.4	8.6	3.4	1.7	3.4	8.6	18.8	30.8	44.5	61.6	75.3
77.5°	10.3	5.1	1.7	0.0	1.7	6.8	17.1	29.1	41.1	58.2	71.9
80°	1.7	0.0	0.0	0.0	0.0	5.1	15.4	25.7	37.6	51.3	63.3
82.5°	0.0	0.0	0.0	0.0	0.0	1.7	12.0	22.2	32.5	42.8	51.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	17.1	25.7	32.5	35.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	17.1	20.5	24.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	699.7	710.0	710.0	716.8	725.4	740.8	749.3	761.3	769.9	778.4	781.9
5°	646.7	648.4	650.1	653.5	663.8	680.9	696.3	715.1	737.4	754.5	764.7
7.5°	602.2	602.2	602.2	607.3	617.6	629.6	645.0	670.6	696.3	716.8	733.9
10°	564.6	569.7	571.4	580.0	591.9	607.3	624.5	646.7	675.8	703.2	733.9
12.5°	540.6	545.8	554.3	562.9	574.8	591.9	610.8	639.9	699.7	756.2	821.2
15°	518.4	525.2	535.5	547.5	561.2	580.0	600.5	660.4	800.7	906.7	1009.4
17.5°	494.4	504.7	518.4	530.4	547.5	568.0	593.7	710.0	985.4	1161.7	1336.2
20°	463.6	477.3	492.7	511.5	532.1	556.0	593.7	812.6	1252.3	1505.5	1736.5
22.5°	434.6	448.2	467.1	491.0	515.0	538.9	602.2	968.3	1596.2	1916.1	2208.7
25°	410.6	427.7	446.5	467.1	494.4	521.8	622.7	1187.3	2010.2	2422.5	2629.6
27.5°	388.4	408.9	427.7	444.8	468.8	499.6	668.9	1479.9	2499.5	2918.7	3081.2
30°	366.1	390.1	408.9	426.0	449.9	482.5	739.1	1852.8	3043.6	3450.8	3467.9
32.5°	347.3	369.5	391.8	408.9	431.1	468.8	836.6	2289.1	3601.3	3994.8	3834.0
35°	326.8	352.4	373.0	391.8	415.7	456.8	949.5	2759.6	4164.2	4494.4	4198.4
37.5°	306.2	335.3	361.0	374.7	398.6	444.8	1031.6	3250.6	4739.0	4982.0	4518.3
40°	287.4	319.9	349.0	362.7	374.7	429.4	1043.6	3753.6	5322.4	5462.7	4819.4
42.5°	266.9	302.8	328.5	347.3	357.6	419.2	971.8	4177.9	5811.7	5941.7	5212.9
45°	244.6	287.4	308.0	321.6	342.2	426.0	879.4	4506.3	6371.2	6595.3	5861.3
47.5°	222.4	270.3	287.4	297.7	325.1	467.1	845.2	4725.3	7293.3	7758.6	6954.5
50°	201.9	254.9	273.7	272.0	321.6	520.1	882.8	4891.3	8679.1	9226.5	8453.2
52.5°	179.6	237.8	260.0	253.2	347.3	561.2	958.1	5023.0	9744.9	10947.6	10466.9
55°	160.8	219.0	239.5	237.8	395.2	591.9	1016.2	4328.4	10186.3	12547.3	12735.5
57.5°	147.1	198.5	215.6	244.6	426.0	591.9	1175.3	3072.7	10194.9	13724.3	15746.5
60°	135.2	179.6	191.6	268.6	414.0	561.2	1163.4	1881.9	9395.9	13643.9	17347.9
62.5°	124.9	162.5	177.9	275.4	366.1	556.0	1050.5	1166.8	8013.6	12605.4	16186.2
65°	116.3	148.8	171.1	253.2	331.9	595.4	708.3	838.3	6499.5	11421.5	14853.5
67.5°	107.8	136.9	181.3	207.0	301.1	532.1	511.5	595.4	5101.7	10123.0	13630.2
70°	100.9	130.0	191.6	169.4	263.5	415.7	362.7	451.7	3905.8	8446.4	11907.4
72.5°	95.8	121.5	160.8	133.4	213.9	321.6	253.2	328.5	2552.6	6593.6	9707.3
75°	90.7	111.2	118.0	107.8	159.1	210.4	191.6	220.7	1520.9	4819.4	7365.1
77.5°	89.0	104.4	95.8	87.3	107.8	124.9	145.4	148.8	742.5	2410.6	3859.6
80°	78.7	94.1	82.1	71.9	73.6	82.1	107.8	99.2	169.4	612.5	1029.9
82.5°	61.6	73.6	68.4	59.9	59.9	59.9	71.9	66.7	54.7	275.4	465.3
85°	42.8	51.3	51.3	47.9	46.2	46.2	44.5	42.8	15.4	17.1	25.7
87.5°	29.1	35.9	37.6	35.9	30.8	27.4	24.0	20.5	6.8	0.0	3.4
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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CATALOG NUMBER: GWS-SA5D-830-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	793.8	799.0	799.0	792.1	787.0	773.3	759.6	745.9	742.5	740.8
5°	793.8	814.4	824.6	822.9	810.9	788.7	759.6	728.8	720.3	716.8
7.5°	781.9	821.2	852.0	857.1	834.9	795.5	742.5	696.3	684.3	679.2
10°	809.2	886.2	947.8	956.4	930.7	853.7	768.2	689.5	670.6	658.7
12.5°	956.4	1083.0	1158.2	1194.2	1144.5	1047.0	905.0	764.7	722.0	703.2
15°	1254.0	1433.7	1577.4	1577.4	1531.2	1358.4	1178.8	951.2	893.1	841.7
17.5°	1635.6	1861.4	1988.0	1974.3	1904.2	1782.7	1567.1	1240.4	1122.3	1069.3
20°	2070.1	2205.3	2234.4	2225.8	2195.0	2124.9	1976.0	1625.3	1466.2	1384.1
22.5°	2446.5	2410.6	2367.8	2333.6	2325.0	2345.6	2325.0	2054.7	1929.8	1784.4
25°	2701.4	2497.8	2369.5	2307.9	2337.0	2455.0	2583.4	2482.4	2383.2	2232.6
27.5°	2840.0	2487.6	2302.8	2239.5	2289.1	2456.8	2735.6	2906.7	2804.1	2732.2
30°	2915.3	2479.0	2260.0	2198.4	2273.7	2484.1	2841.7	3303.6	3307.0	3192.4
32.5°	3023.0	2533.7	2268.6	2212.1	2313.0	2566.3	2975.1	3707.4	3806.6	3745.0
35°	3144.5	2617.6	2307.9	2256.6	2381.5	2675.7	3124.0	4114.6	4321.6	4301.0
37.5°	3259.1	2711.7	2400.3	2350.7	2485.8	2769.8	3267.7	4514.9	4802.3	4874.2
40°	3378.9	2843.4	2684.3	2732.2	2807.5	2918.7	3396.0	4862.2	5331.0	5438.7
42.5°	3661.2	3300.2	3543.1	3633.8	3644.1	3414.8	3676.6	5307.0	5851.1	5979.4
45°	4290.8	4112.8	4809.2	4937.5	4870.7	4176.1	4352.4	5948.6	6578.2	6643.2
47.5°	5086.3	5168.4	6542.2	6985.3	6585.0	5074.3	5171.9	7298.4	7909.2	7885.2
50°	6013.6	6401.9	8509.7	9555.0	8596.9	6241.1	6116.2	8957.9	9698.7	9625.2
52.5°	7110.2	7835.6	10874.1	12359.1	11452.3	7553.3	7502.0	11156.4	11608.0	11373.6
55°	8490.9	9219.7	13594.3	15669.5	14379.6	9154.7	9330.9	13705.5	13792.8	13048.5
57.5°	10550.7	11024.6	16800.4	19465.9	17435.1	11330.9	12608.9	17098.1	16054.5	14644.8
60°	14290.6	13346.2	19898.7	23349.5	20685.7	14391.5	16932.1	19108.3	16807.2	14863.7
62.5°	15592.6	15317.1	21838.8	24991.9	22872.2	16904.8	18056.2	17968.9	15832.1	14035.7
65°	13620.0	14826.1	21491.5	24124.5	22591.6	16490.7	16203.3	16711.4	14733.7	12778.2
67.5°	12581.5	13673.0	20175.9	21731.0	21036.4	15086.1	14442.9	14304.3	12369.3	10812.5
70°	11534.5	12615.7	18268.3	18461.6	18138.3	12797.0	11951.9	11022.9	9245.4	7892.1
72.5°	10275.3	10870.6	15621.6	14704.6	14338.5	10051.2	9873.2	8301.0	6930.6	5768.9
75°	8961.4	8788.6	12179.4	10092.2	10366.0	7820.2	8338.6	6095.7	5077.8	4152.2
77.5°	6518.3	6390.0	8157.3	6129.9	6788.6	5122.2	4602.1	2432.8	2316.5	1998.3
80°	3637.2	4384.9	4405.4	3435.4	4285.6	3339.6	1151.4	80.4	51.3	75.3
82.5°	1690.3	1885.3	2388.3	1592.8	2444.8	1654.4	237.8	0.0	0.0	0.0
85°	547.5	800.7	670.6	234.4	591.9	559.4	39.3	0.0	0.0	0.0
87.5°	32.5	66.7	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	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



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.

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



Test Conditions

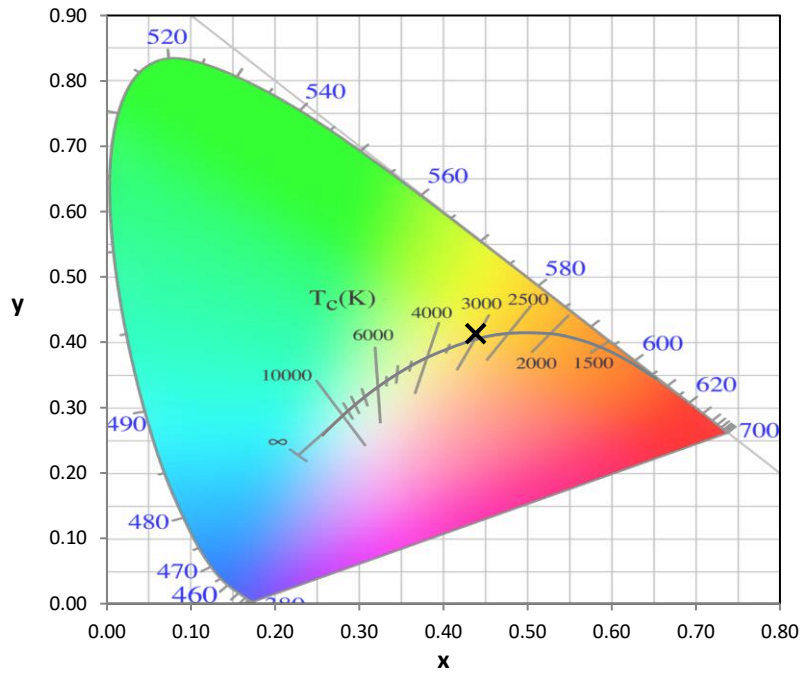
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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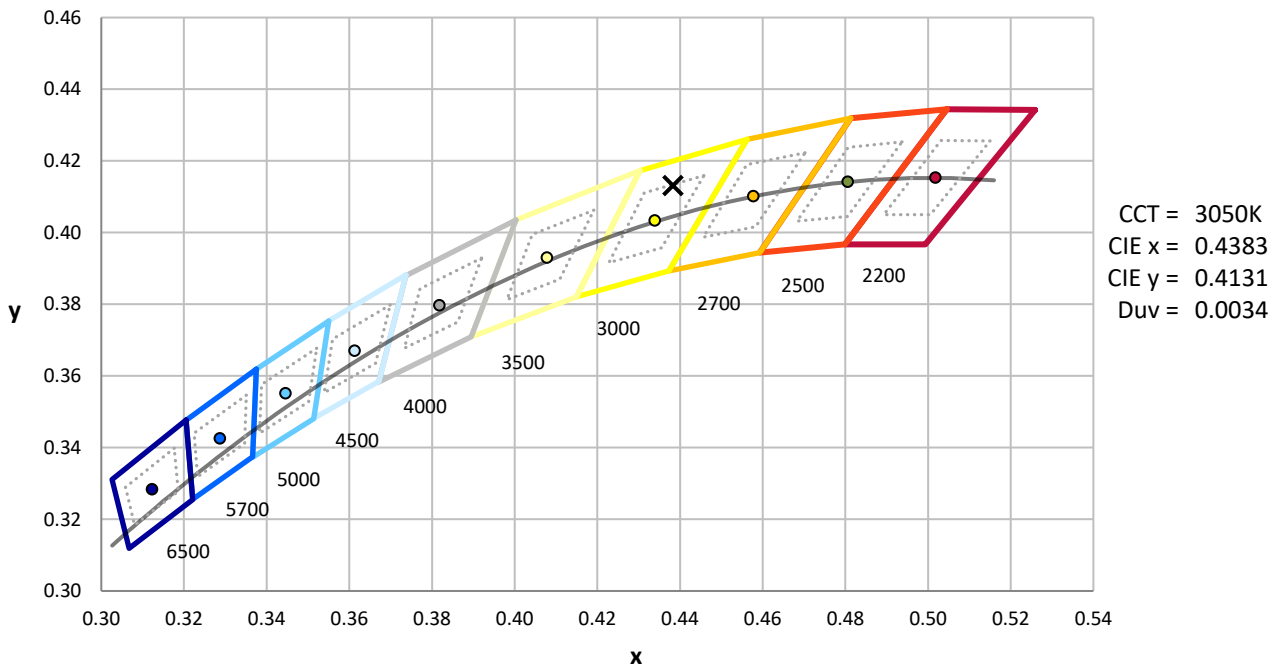
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



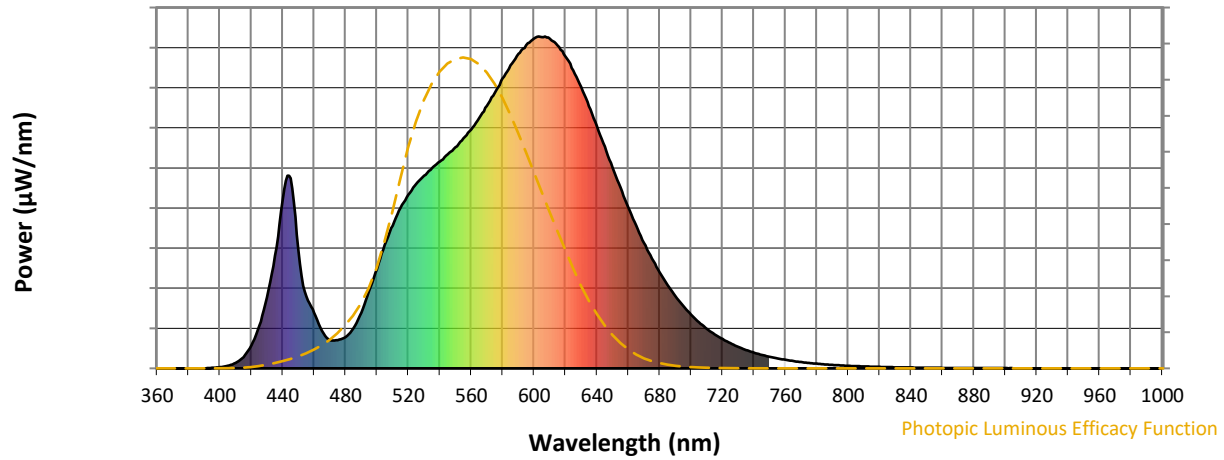
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

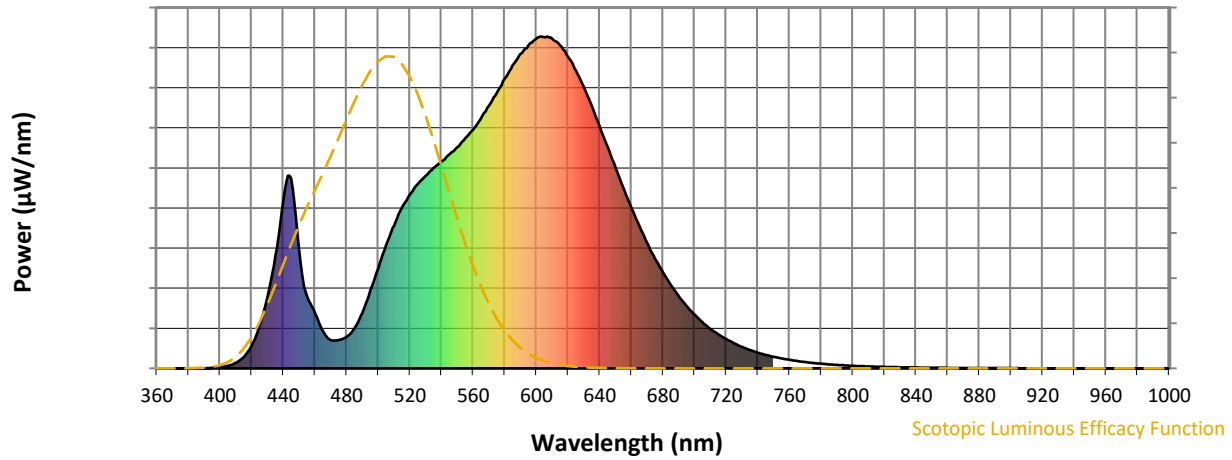


Photopic Lumens: NR

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



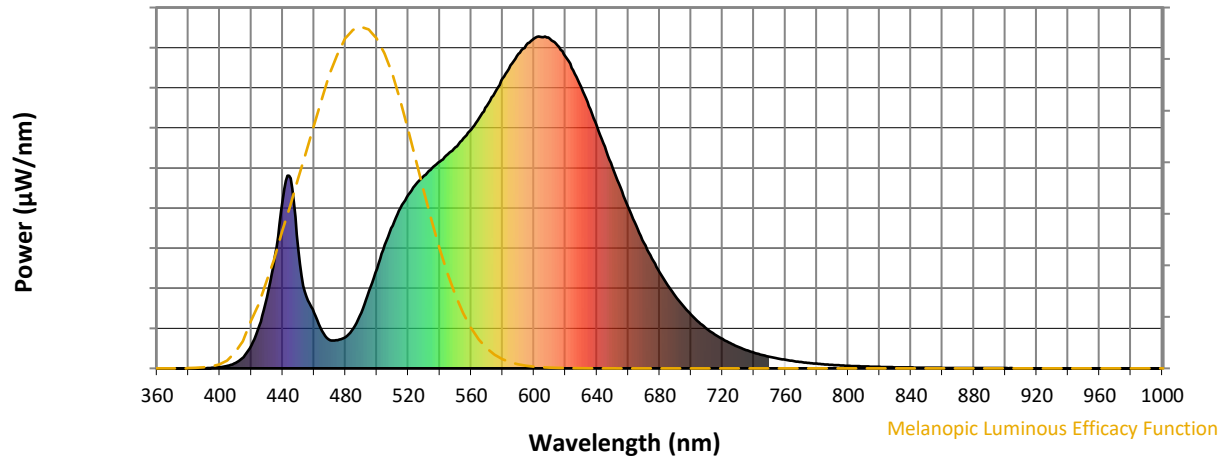
Scotopic Lumens: NR

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

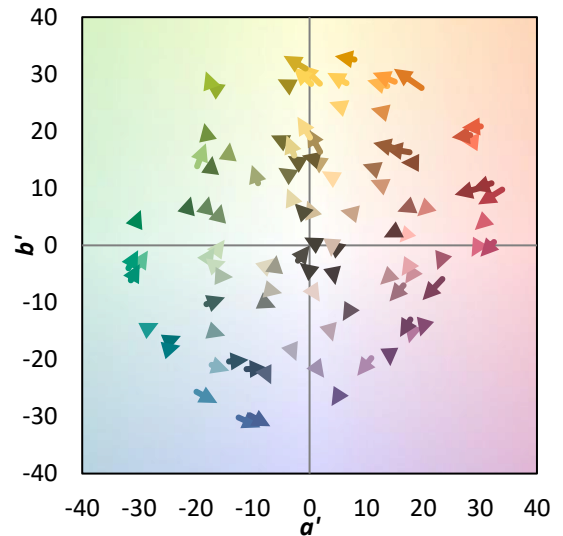
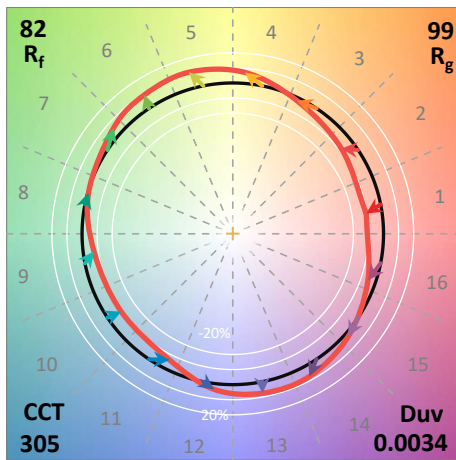
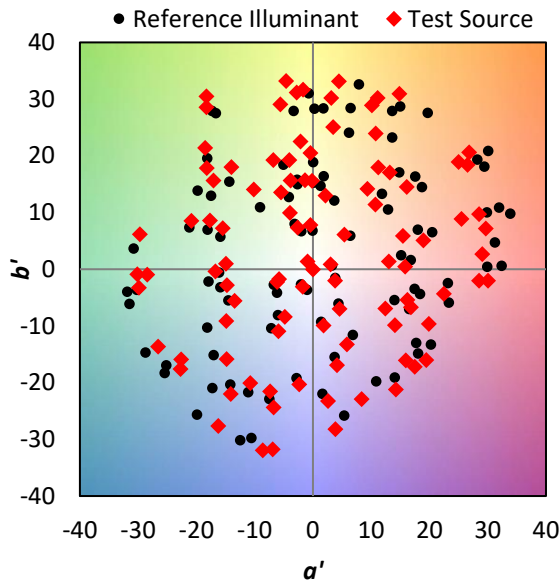
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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			

Summary

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

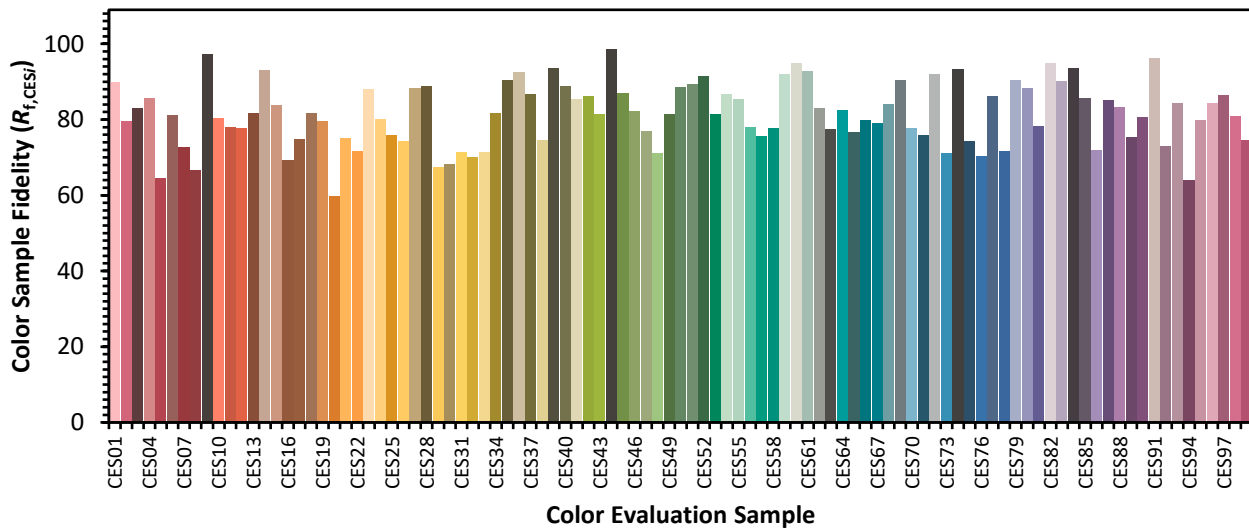


Color Vector Graphics

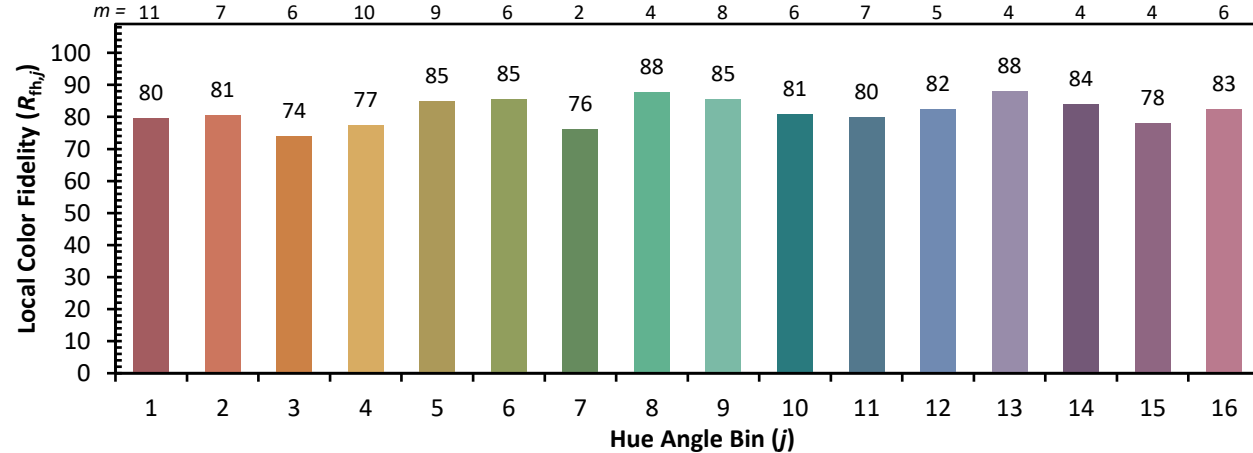
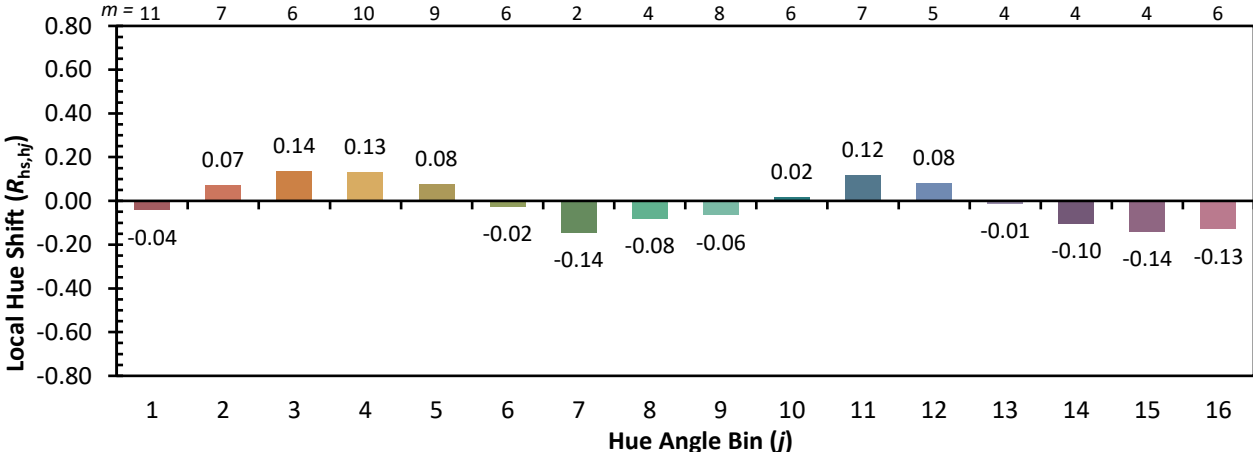
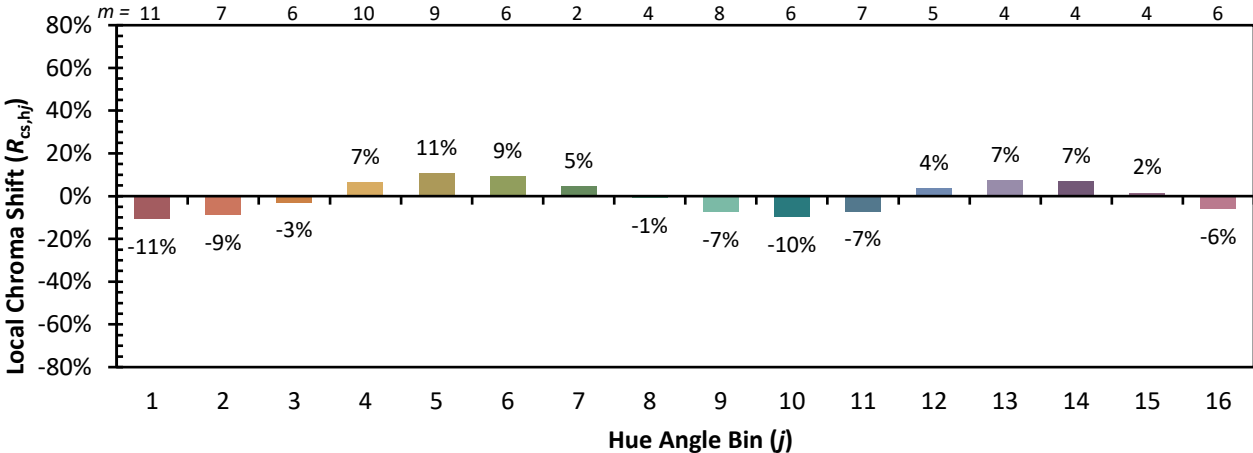


Individual Sample Fidelity Index ($R_{f,i}$)

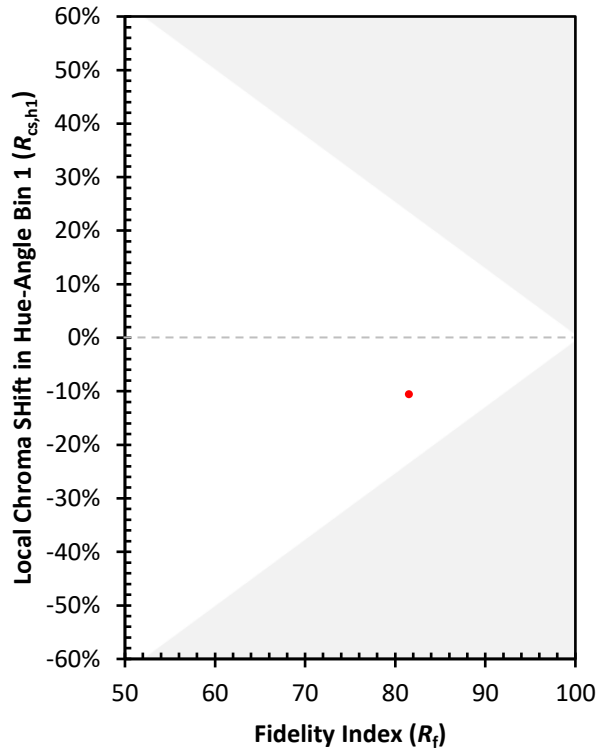
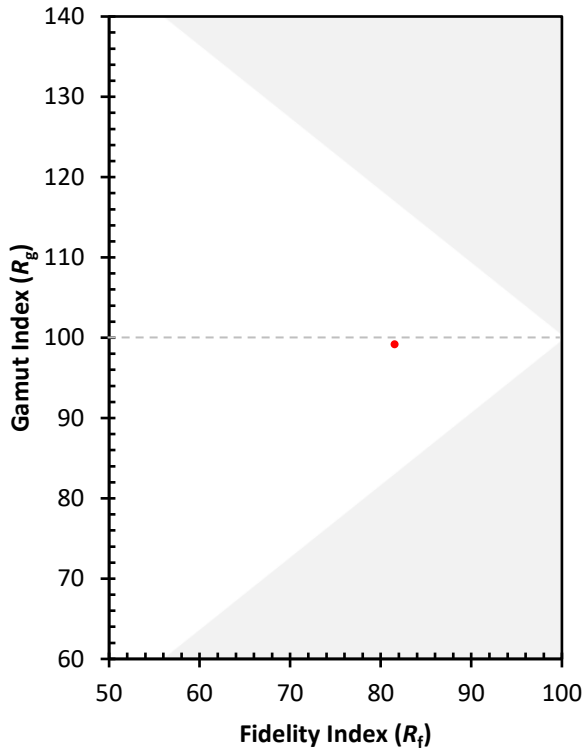
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)