

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: P640465

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-830-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14810 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

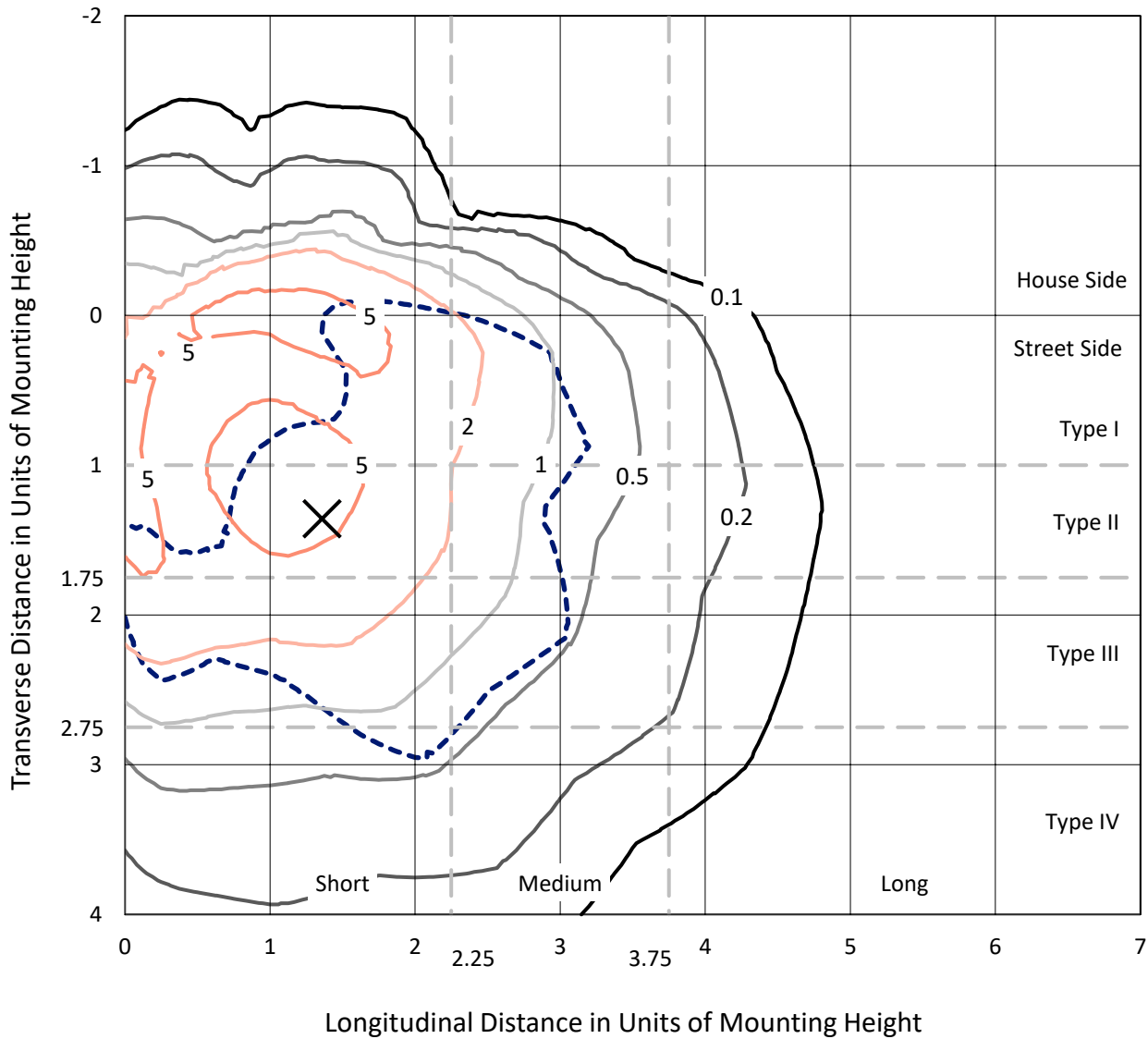
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640465
 CATALOG NUMBER: GWS-SA5D-830-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

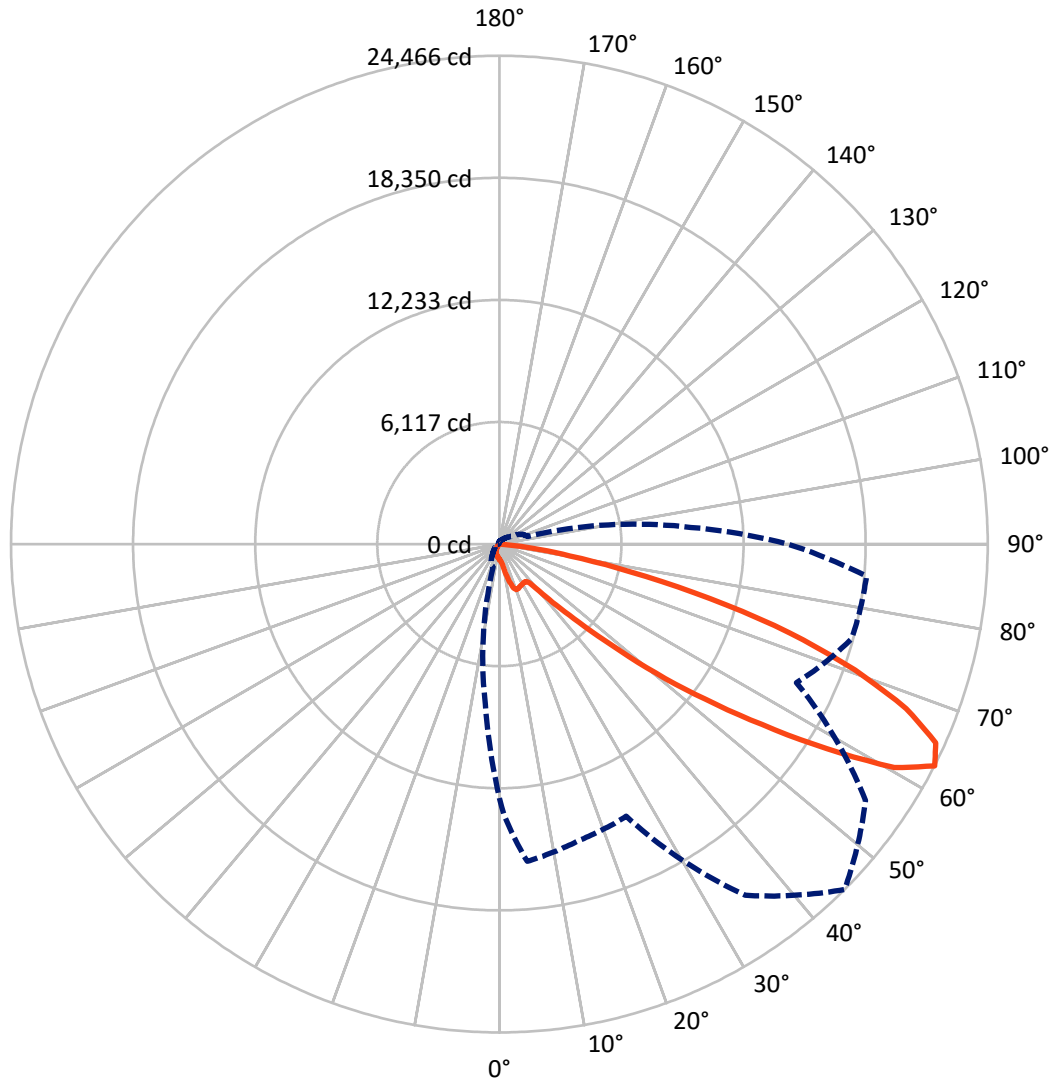
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P640465
CATALOG NUMBER: GWS-SA5D-830-U-SLR-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1827.5	0.0	1827.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	12982.5	0.0	12982.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	14810.0	0.0	14810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	0.5
10°-20°	258.2	1.7
20°-30°	561.3	3.8
30°-40°	921.3	6.2
40°-50°	1693.6	11.4
50°-60°	3637.1	24.6
60°-70°	4885.2	33.0
70°-80°	2543.8	17.2
80°-90°	241.2	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°	14810.0	100.0
0°-180°	14810.0	100.0

Coefficient of Utilization

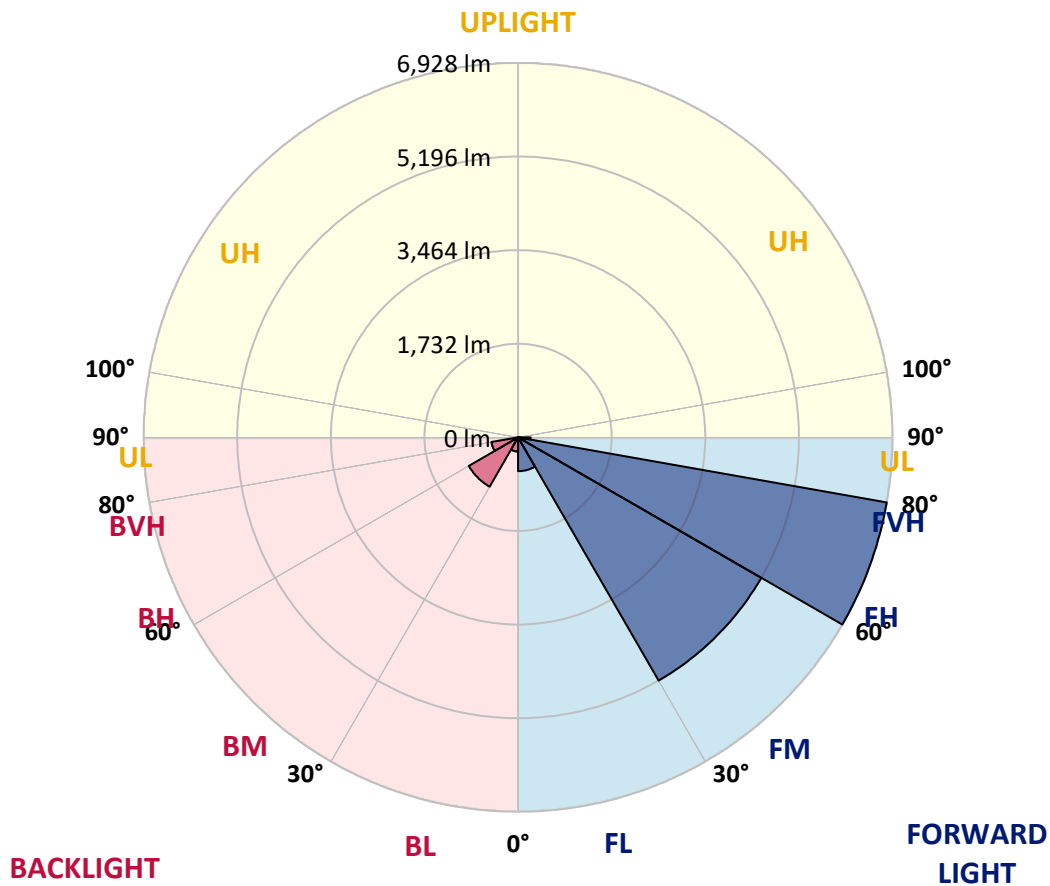


REPORT NUMBER: P640465
 CATALOG NUMBER: GWS-SA5D-830-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.6	4.2			
FM (30°-60°)	5198.1	35.1			
FH (60°-80°)	6928.2	46.8			G3/7500
FVH (80°-90°)	230.4	1.6			G3/500
BL (0°-30°)	262.1	1.8	B1/500		
BM (30°-60°)	1053.9	7.1	B2/2500		
BH (60°-80°)	500.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





REPORT NUMBER: P640465

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	785.2	788.6	792.0	804.0	812.6	819.4	821.1	816.0	804.0	792.0	774.9
5°	761.3	764.7	776.7	809.2	841.7	867.3	875.9	870.7	841.7	804.0	764.7
7.5°	759.5	766.4	795.5	863.9	934.0	987.1	1000.8	988.8	934.0	858.8	778.4
10°	821.1	833.1	875.9	999.0	1127.3	1221.4	1259.1	1207.7	1120.5	983.6	851.9
12.5°	981.9	1002.5	1084.6	1264.2	1462.6	1587.5	1638.8	1575.5	1438.7	1240.2	1031.5
15°	1235.1	1265.9	1389.1	1657.7	1892.0	2003.2	2020.3	1984.4	1825.3	1606.3	1325.8
17.5°	1592.7	1637.1	1828.7	2102.4	2271.8	2311.1	2306.0	2268.4	2152.0	2001.5	1736.3
20°	2020.3	2073.4	2261.5	2487.3	2504.4	2458.3	2432.6	2410.4	2371.0	2345.4	2138.4
22.5°	2451.4	2516.4	2713.2	2769.6	2615.6	2482.2	2418.9	2436.0	2494.2	2620.8	2537.0
25°	2880.8	2942.4	3127.1	2974.9	2667.0	2444.6	2364.2	2405.2	2543.8	2817.5	2925.3
27.5°	3382.0	3428.2	3537.7	3115.2	2675.5	2413.8	2335.1	2398.4	2567.7	2940.7	3351.2
30°	3903.8	3931.2	3878.1	3152.8	2646.4	2367.6	2306.0	2398.4	2608.8	3022.8	3671.1
32.5°	4287.0	4292.1	4119.3	3156.2	2631.0	2330.0	2278.6	2388.1	2648.1	3091.2	3980.8
35°	4682.2	4656.5	4350.3	3207.5	2672.1	2343.6	2299.2	2417.2	2709.7	3171.6	4252.8
37.5°	5082.5	5036.3	4608.6	3291.4	2778.2	2492.5	2465.1	2566.0	2809.0	3282.8	4552.1
40°	5493.0	5429.7	4877.2	3418.0	3014.2	2998.8	3092.9	3081.0	3081.0	3424.8	4860.1
42.5°	5994.3	5920.7	5274.1	3775.5	3565.1	3908.9	4165.5	4006.4	3712.2	3751.5	5260.4
45°	6656.3	6593.0	5961.8	4459.8	4429.0	5219.3	5564.9	5250.1	4517.9	4506.0	5929.2
47.5°	7715.2	7703.2	7058.3	5253.5	5486.2	6887.2	7554.4	6948.8	5436.6	5304.8	7195.2
50°	9203.5	9167.6	8425.1	6184.1	6743.5	8953.7	10144.4	9135.1	6546.8	6237.2	8890.5
52.5°	10880.0	10917.6	10339.4	7200.3	8079.6	11252.9	12910.6	11639.5	7752.8	7422.7	11023.7
55°	12458.9	12674.5	12522.2	8389.2	9384.8	13791.6	15948.8	14386.9	9246.3	8974.3	13415.2
57.5°	13694.1	14301.4	15368.8	10117.0	10919.3	16761.3	19341.0	17365.2	10989.5	11494.1	16670.7
60°	13762.5	14566.5	17045.3	13731.7	12893.5	19308.5	22728.2	20275.1	13730.0	15772.6	19221.3
62.5°	12730.9	13593.1	15953.9	15374.0	15043.8	21476.0	24466.3	22396.3	16426.0	18278.7	18465.2
65°	11550.6	12421.3	14735.9	13511.0	14794.0	21383.6	24024.9	22445.9	16670.7	16574.9	17112.0
67.5°	9766.3	10548.1	12643.7	11959.4	13635.9	20352.1	21985.8	21031.2	15358.6	15502.3	15741.8
70°	7128.4	7881.1	9826.2	9860.4	11908.1	18492.5	18891.1	18759.4	14144.0	14296.2	13612.0
72.5°	5149.2	5783.8	7462.0	8086.4	9506.3	15507.4	15232.0	15740.0	12135.6	12732.7	10933.0
75°	3701.9	4177.5	5474.2	7034.4	7535.6	11516.4	10903.9	12190.4	9737.2	10963.8	8219.9
77.5°	1502.0	1669.6	2153.8	4738.6	4952.4	7747.7	6675.1	8854.5	6942.0	7203.7	3984.2
80°	61.6	68.4	89.0	2446.3	3395.7	4358.8	3571.9	4733.5	4584.6	2901.3	940.9
82.5°	6.8	6.8	15.4	704.8	1486.6	2405.2	1683.3	2726.8	2321.4	1230.0	427.7
85°	1.7	1.7	3.4	80.4	349.0	384.9	227.5	836.5	1079.4	502.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	15.4	17.1	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



REPORT NUMBER: P640465

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	774.9	766.4	756.1	745.9	740.7	727.0	721.9	718.5	715.1	716.8	716.8
5°	749.3	730.5	708.2	686.0	674.0	660.3	653.5	650.1	651.8	658.6	658.6
7.5°	745.9	709.9	662.0	633.0	619.3	609.0	602.2	598.7	600.5	609.0	612.4
10°	802.3	739.0	653.5	603.9	588.5	578.2	571.4	566.2	562.8	569.7	571.4
12.5°	923.8	836.5	694.5	600.5	573.1	559.4	554.3	544.0	538.9	542.3	544.0
15°	1175.2	1024.7	776.7	614.1	559.4	544.0	535.4	526.9	518.3	516.6	518.3
17.5°	1503.7	1288.1	901.5	646.6	549.1	530.3	518.3	506.4	494.4	492.7	491.0
20°	1910.8	1611.5	1076.0	698.0	540.6	518.3	501.2	484.1	468.7	463.6	463.6
22.5°	2282.1	2001.5	1300.1	761.3	528.6	501.2	480.7	460.2	443.1	434.5	432.8
25°	2735.4	2415.5	1568.7	834.8	511.5	479.0	456.8	436.2	419.1	408.9	405.4
27.5°	3192.1	2851.7	1873.2	930.6	491.0	456.8	436.2	417.4	398.6	386.6	383.2
30°	3635.2	3322.2	2215.3	1050.4	475.6	434.5	417.4	398.6	381.5	362.7	357.5
32.5°	4110.8	3802.9	2598.5	1183.8	463.6	419.1	400.3	383.2	361.0	343.8	335.3
35°	4569.3	4299.0	3021.1	1313.8	451.6	405.4	384.9	367.8	343.8	325.0	313.1
37.5°	5031.1	4803.6	3462.4	1392.5	434.5	386.6	367.8	354.1	326.7	304.5	290.8
40°	5520.4	5325.4	3939.7	1360.0	419.1	366.1	355.8	340.4	309.6	284.0	266.9
42.5°	6057.5	5823.2	4425.6	1235.1	405.4	349.0	338.7	323.3	294.2	263.4	241.2
45°	6733.3	6368.9	4824.1	1046.9	412.3	331.9	311.3	307.9	280.6	241.2	213.8
47.5°	7894.8	7207.1	5133.8	925.5	458.5	313.1	289.1	297.7	268.6	219.0	188.2
50°	9672.2	8596.2	5422.9	916.9	528.6	304.5	268.6	290.8	256.6	196.7	165.9
52.5°	11365.8	10007.5	5607.6	992.2	590.2	326.7	248.0	282.3	248.0	181.3	150.5
55°	12985.8	10821.8	5277.5	1046.9	648.4	393.5	232.7	268.6	237.8	172.8	145.4
57.5°	14732.5	11184.5	4155.3	1158.1	689.4	449.9	236.1	248.0	224.1	167.6	143.7
60°	15254.2	10720.9	2507.9	1303.5	667.2	467.0	261.7	220.7	205.3	157.4	138.6
62.5°	14443.3	9620.9	1479.7	1187.2	648.4	441.4	299.4	203.6	186.5	143.7	128.3
65°	13230.5	8127.5	964.8	1002.5	687.7	393.5	318.2	195.0	169.4	130.0	112.9
67.5°	11844.8	6546.8	675.7	591.9	634.7	354.1	268.6	193.3	152.3	109.5	92.4
70°	9976.7	4902.8	475.6	391.7	528.6	314.8	208.7	188.2	133.4	89.0	71.8
72.5°	7708.4	3069.0	354.1	253.2	376.4	256.6	165.9	159.1	107.8	73.6	54.7
75°	5684.6	1750.0	249.8	183.0	248.0	195.0	123.2	112.9	92.4	70.1	49.6
77.5°	2968.0	875.9	155.7	140.3	142.0	121.5	89.0	82.1	85.5	70.1	46.2
80°	569.7	174.5	94.1	102.6	77.0	77.0	65.0	68.4	75.3	56.5	39.3
82.5°	237.8	37.6	51.3	58.2	47.9	53.0	53.0	54.7	53.0	41.1	29.1
85°	0.0	0.0	22.2	23.9	32.5	32.5	27.4	27.4	27.4	23.9	17.1
87.5°	0.0	0.0	0.0	0.0	1.7	5.1	10.3	12.0	13.7	10.3	6.8
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: P640465

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	715.1	711.6	716.8	720.2	723.6	723.6	720.2	716.8	711.6	716.8	711.6
5°	660.3	665.5	674.0	677.4	680.9	674.0	670.6	660.3	651.8	653.5	650.1
7.5°	617.6	622.7	633.0	639.8	639.8	636.4	626.1	615.8	602.2	602.2	600.5
10°	578.2	585.1	597.0	605.6	609.0	605.6	595.3	581.6	569.7	569.7	564.5
12.5°	545.7	554.3	567.9	579.9	583.3	579.9	569.7	556.0	542.3	542.3	538.9
15°	518.3	528.6	544.0	557.7	562.8	557.7	545.7	528.6	514.9	516.6	511.5
17.5°	492.7	501.2	521.8	537.2	542.3	537.2	521.8	499.5	485.8	489.3	485.8
20°	463.6	473.9	494.4	511.5	516.6	511.5	494.4	470.4	456.8	456.8	458.5
22.5°	432.8	443.1	463.6	475.6	482.4	477.3	460.2	437.9	424.3	424.3	426.0
25°	405.4	410.6	426.0	437.9	439.6	434.5	420.8	403.7	393.5	398.6	400.3
27.5°	379.8	379.8	386.6	393.5	391.7	386.6	381.5	367.8	366.1	371.2	376.4
30°	352.4	343.8	340.4	335.3	333.6	331.9	337.0	337.0	340.4	347.3	352.4
32.5°	328.5	311.3	295.9	280.6	272.0	278.8	292.5	304.5	316.5	326.7	331.9
35°	301.1	273.7	248.0	227.5	213.8	224.1	246.3	268.6	289.1	302.8	311.3
37.5°	273.7	234.4	203.6	177.9	167.6	176.2	200.2	230.9	261.7	278.8	290.8
40°	244.6	195.0	159.1	138.6	128.3	136.9	160.8	191.6	232.7	254.9	270.3
42.5°	215.5	160.8	128.3	107.8	102.6	107.8	126.6	157.4	201.9	229.2	249.8
45°	186.5	133.4	102.6	87.2	82.1	87.2	102.6	128.3	172.8	203.6	227.5
47.5°	160.8	112.9	85.5	71.8	68.4	73.6	85.5	107.8	145.4	176.2	203.6
50°	140.3	99.2	73.6	61.6	58.2	63.3	73.6	90.7	123.2	150.5	179.6
52.5°	126.6	92.4	65.0	53.0	51.3	54.7	63.3	77.0	104.4	128.3	155.7
55°	123.2	92.4	59.9	47.9	46.2	49.6	56.5	66.7	90.7	111.2	135.1
57.5°	126.6	99.2	56.5	41.1	39.3	42.8	49.6	58.2	78.7	95.8	118.0
60°	126.6	100.9	49.6	32.5	30.8	34.2	41.1	51.3	70.1	83.8	102.6
62.5°	114.6	92.4	41.1	25.7	22.2	25.7	34.2	42.8	61.6	75.3	90.7
65°	99.2	78.7	34.2	18.8	15.4	18.8	27.4	35.9	53.0	65.0	82.1
67.5°	80.4	59.9	25.7	13.7	10.3	13.7	20.5	29.1	44.5	56.5	73.6
70°	59.9	42.8	20.5	12.0	10.3	12.0	18.8	27.4	39.3	51.3	68.4
72.5°	44.5	29.1	17.1	12.0	8.6	12.0	17.1	25.7	37.6	49.6	65.0
75°	37.6	23.9	15.4	10.3	8.6	10.3	15.4	23.9	34.2	46.2	61.6
77.5°	35.9	22.2	13.7	8.6	6.8	8.6	13.7	20.5	30.8	42.8	59.9
80°	30.8	18.8	12.0	6.8	5.1	6.8	12.0	17.1	23.9	32.5	46.2
82.5°	23.9	15.4	8.6	3.4	1.7	3.4	8.6	10.3	15.4	18.8	27.4
85°	15.4	8.6	3.4	0.0	0.0	0.0	3.4	6.8	6.8	8.6	13.7
87.5°	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.1
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: P640465
 CATALOG NUMBER: GWS-SA5D-830-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	721.9	723.6	727.0	732.2	744.1	754.4	764.7	778.4	785.2	785.2
5°	653.5	655.2	656.9	663.7	680.9	694.5	716.8	744.1	757.8	761.3
7.5°	600.5	603.9	607.3	612.4	629.5	648.4	677.4	728.8	754.4	759.5
10°	569.7	574.8	581.6	591.9	607.3	627.8	677.4	769.8	812.6	821.1
12.5°	545.7	554.3	561.1	573.1	591.9	624.4	723.6	886.1	961.4	981.9
15°	521.8	532.0	542.3	554.3	574.8	636.4	812.6	1094.8	1219.7	1235.1
17.5°	497.8	509.8	523.5	537.2	562.8	665.5	952.9	1383.9	1558.4	1592.7
20°	470.4	485.8	504.7	521.8	550.8	711.6	1147.9	1727.8	1946.8	2020.3
22.5°	441.4	460.2	482.4	504.7	537.2	768.1	1383.9	2097.3	2403.5	2451.4
25°	417.4	436.2	456.8	479.0	514.9	836.5	1669.6	2555.8	2834.6	2880.8
27.5°	395.2	414.0	432.8	453.3	492.7	925.5	2013.5	3043.3	3334.1	3382.0
30°	371.2	393.5	412.3	432.8	472.2	1035.0	2410.4	3583.9	3859.3	3903.8
32.5°	350.7	372.9	391.7	412.3	456.8	1154.7	2827.8	4062.9	4287.0	4287.0
35°	333.6	357.5	371.2	398.6	444.8	1231.7	3222.9	4519.6	4689.0	4682.2
37.5°	314.8	343.8	354.1	372.9	429.4	1240.2	3594.2	5002.1	5126.9	5082.5
40°	295.9	326.7	342.1	352.4	412.3	1170.1	4001.3	5445.1	5551.2	5493.0
42.5°	278.8	302.8	325.0	337.0	402.0	1046.9	4328.0	5919.0	6045.6	5994.3
45°	261.7	282.3	295.9	318.2	408.9	961.4	4608.6	6471.5	6693.9	6656.3
47.5°	244.6	261.7	270.3	304.5	455.0	922.1	4779.7	7326.9	7746.0	7715.2
50°	225.8	246.3	246.3	301.1	523.5	935.7	4928.5	8565.4	9213.8	9203.5
52.5°	207.0	229.2	225.8	326.7	576.5	999.0	5097.9	9658.5	10785.9	10880.0
55°	188.2	208.7	212.1	378.1	607.3	1053.8	4442.7	10118.7	12128.8	12458.9
57.5°	167.6	179.6	220.7	417.4	597.0	1212.9	3043.3	10202.5	12985.8	13694.1
60°	145.4	155.7	249.8	408.9	564.5	1120.5	1916.0	9449.8	12864.4	13762.5
62.5°	126.6	143.7	263.4	361.0	574.8	971.7	1221.4	8053.9	11706.2	12730.9
65°	111.2	138.6	239.5	326.7	581.6	658.6	824.6	6551.9	10575.5	11550.6
67.5°	99.2	154.0	196.7	290.8	499.5	463.6	566.2	5091.0	8892.2	9766.3
70°	90.7	157.4	160.8	249.8	386.6	297.7	372.9	3426.5	6129.4	7128.4
72.5°	82.1	116.3	121.5	200.2	249.8	181.3	241.2	1960.4	4468.3	5149.2
75°	78.7	78.7	83.8	130.0	138.6	131.7	155.7	1170.1	3204.1	3701.9
77.5°	73.6	59.9	53.0	83.8	75.3	94.1	92.4	520.0	1389.1	1502.0
80°	58.2	42.8	35.9	53.0	51.3	63.3	54.7	42.8	63.3	61.6
82.5°	35.9	27.4	25.7	32.5	29.1	32.5	25.7	6.8	6.8	6.8
85°	17.1	15.4	13.7	13.7	15.4	13.7	10.3	3.4	1.7	1.7
87.5°	8.6	8.6	6.8	5.1	6.8	6.8	5.1	1.7	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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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)