

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: P639464

Luminaire Tested: GWS-SA5B-830-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-830-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11812.2 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

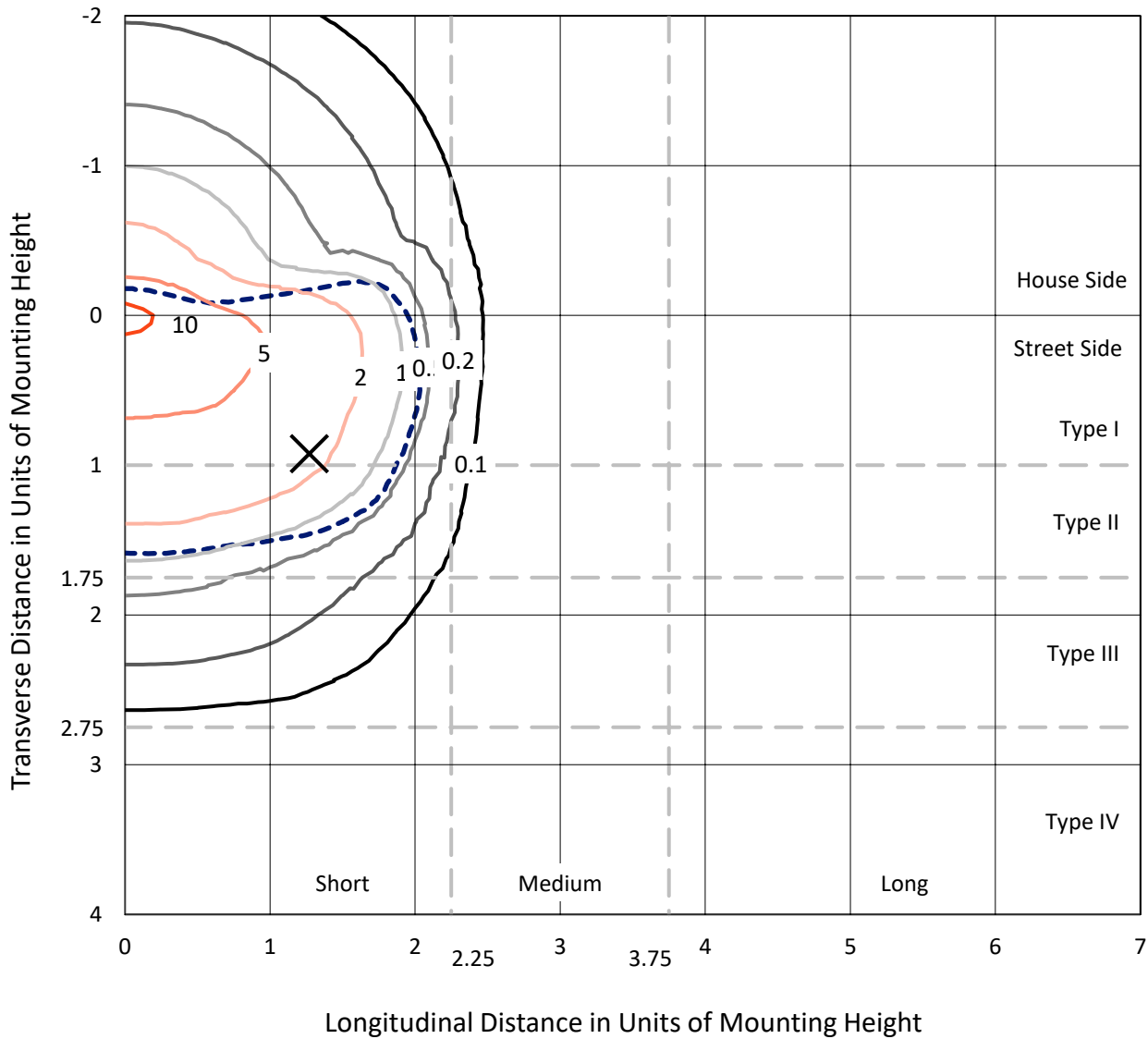
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639464
 CATALOG NUMBER: GWS-SA5B-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

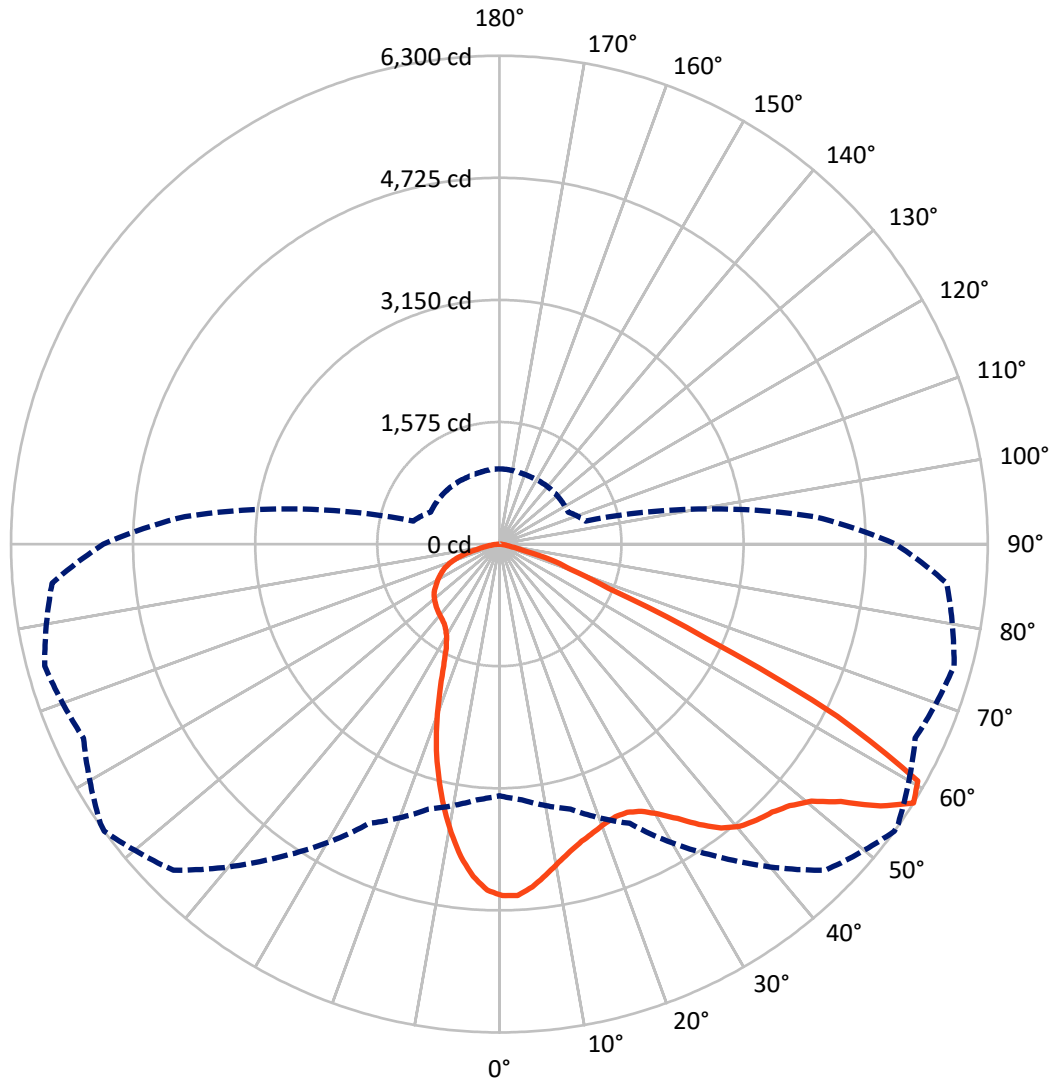
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3433.9	0.0	3433.9
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	8378.3	0.0	8378.3
	% Fixture	70.9	0.0	70.9
Total	Lumens	11812.2	0.0	11812.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.6	3.4
10°-20°	951.2	8.1
20°-30°	1316.3	11.1
30°-40°	1828.9	15.5
40°-50°	2415.5	20.4
50°-60°	2870.4	24.3
60°-70°	1590.3	13.5
70°-80°	396.0	3.4
80°-90°	45.0	0.4
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°	11812.2	100.0
0°-180°	11812.2	100.0

Coefficient of Utilization



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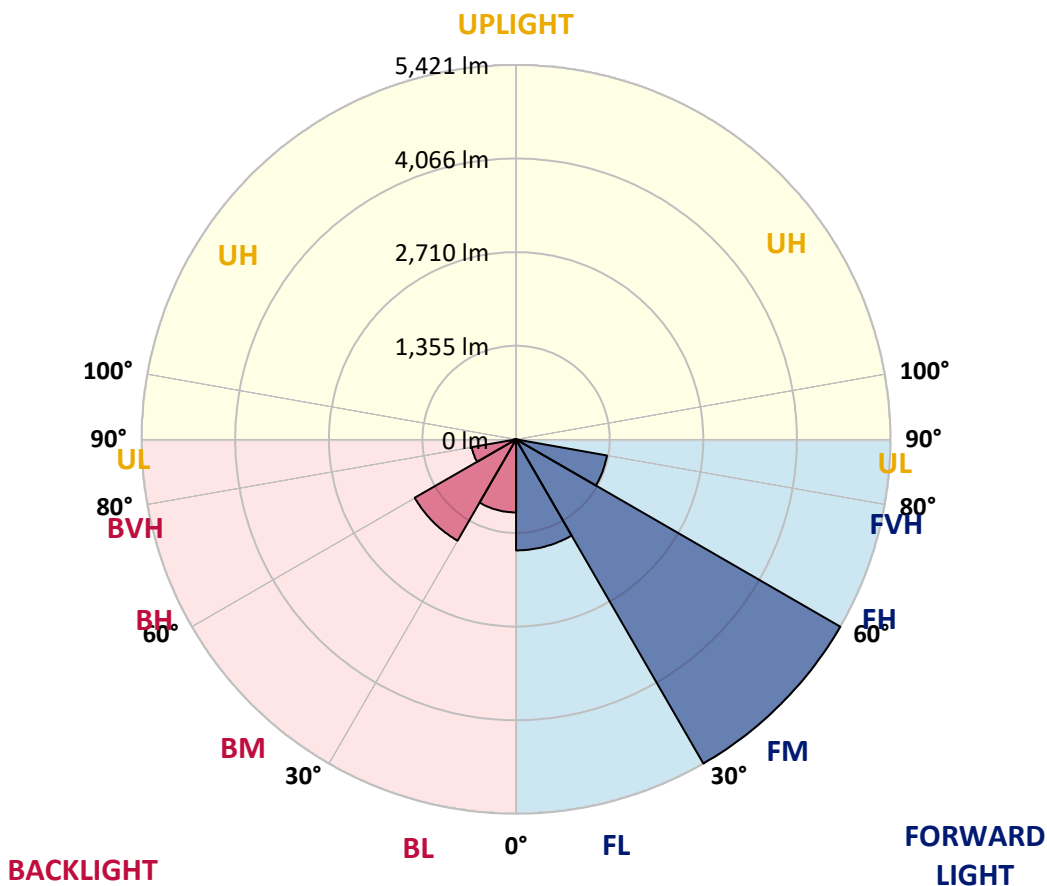
CATALOG NUMBER: GWS-SA5B-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.8	13.6			
FM (30°-60°)	5420.8	45.9			
FH (60°-80°)	1335.5	11.3			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	1058.2	9.0	B3/2500		
BM (30°-60°)	1694.0	14.3	B2/2500		
BH (60°-80°)	650.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	30.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0
2.5°	4450.0	4459.1	4465.2	4486.4	4504.6	4520.8	4538.0	4538.0	4537.0	4534.0	4527.9
5°	4274.1	4284.2	4298.4	4327.7	4367.1	4395.4	4441.9	4446.0	4466.2	4474.3	4470.3
7.5°	4069.8	4072.9	4091.1	4129.5	4192.2	4242.8	4309.5	4317.6	4366.1	4394.4	4389.4
10°	3846.4	3836.3	3868.6	3925.3	4007.2	4092.1	4178.0	4185.1	4263.0	4316.6	4312.5
12.5°	3642.1	3643.1	3675.5	3744.3	3846.4	3951.5	4066.8	4083.0	4179.0	4247.8	4240.7
15°	3471.3	3475.3	3514.7	3592.6	3708.9	3834.3	3977.8	3993.0	4114.3	4205.3	4185.1
17.5°	3334.7	3338.8	3373.2	3462.2	3586.5	3738.2	3913.1	3928.3	4078.9	4187.1	4145.7
20°	3240.7	3238.7	3272.1	3357.0	3485.4	3650.2	3856.5	3878.7	4067.8	4194.2	4119.4
22.5°	3202.3	3201.3	3225.5	3295.3	3415.6	3582.5	3822.1	3852.5	4080.0	4225.6	4103.2
25°	3221.5	3217.5	3238.7	3290.3	3386.3	3556.2	3832.2	3864.6	4131.5	4290.3	4106.2
27.5°	3281.2	3276.1	3294.3	3340.8	3413.6	3583.5	3903.0	3940.4	4240.7	4408.6	4146.7
30°	3372.2	3369.1	3387.3	3431.8	3495.5	3674.5	4038.5	4081.0	4409.6	4592.6	4234.7
32.5°	3478.3	3473.3	3505.6	3557.2	3631.0	3840.3	4220.5	4276.1	4609.8	4829.2	4382.3
35°	3597.6	3593.6	3638.1	3712.9	3819.1	4070.9	4440.9	4501.6	4814.0	5097.2	4578.5
37.5°	3713.9	3713.9	3799.9	3911.1	4044.6	4321.6	4648.2	4686.6	4955.6	5334.8	4788.8
40°	3817.1	3823.1	3952.6	4119.4	4289.3	4548.1	4784.7	4817.1	5018.3	5498.6	4971.8
42.5°	3931.3	3936.4	4087.0	4305.4	4507.7	4731.1	4867.6	4883.8	5030.4	5580.5	5101.2
45°	4022.3	4029.4	4216.5	4450.0	4697.8	4868.6	4933.4	4947.5	5047.6	5625.0	5195.2
47.5°	4069.8	4080.0	4294.3	4566.3	4826.2	4992.0	5041.6	5047.6	5118.4	5702.8	5308.5
50°	4061.8	4082.0	4323.6	4624.0	4921.2	5116.4	5215.5	5225.6	5263.0	5817.1	5441.0
52.5°	4133.5	4142.6	4386.3	4692.7	5056.7	5345.9	5517.8	5532.0	5514.8	5903.0	5519.8
55°	4014.2	4057.7	4308.5	4682.6	5263.0	5700.8	5965.7	5958.7	5743.3	5999.1	5651.3
57.5°	3246.8	3310.5	3540.0	3974.8	4923.3	5949.6	6300.4	6283.2	5920.2	6072.9	5793.8
60°	2247.8	2257.9	2465.2	2773.6	3799.9	5255.9	6202.3	6239.8	5952.6	5979.9	5529.9
62.5°	1797.8	1794.8	1814.0	1822.1	2416.6	3694.7	4895.9	5032.5	4945.5	4659.3	3919.2
65°	1534.9	1546.0	1602.7	1573.3	1577.4	2080.9	2925.2	2944.4	2883.8	2780.6	2072.8
67.5°	1201.2	1220.4	1320.6	1434.8	1398.4	1339.8	1517.7	1508.6	1189.1	920.1	760.4
70°	752.3	764.4	871.6	1126.4	1217.4	1100.1	975.8	971.7	637.0	523.8	574.3
72.5°	438.8	440.9	471.2	627.9	807.9	752.3	717.9	691.6	409.5	417.6	458.0
75°	241.7	241.7	240.7	271.0	318.5	282.1	273.0	265.9	274.0	310.4	340.8
77.5°	50.6	51.6	54.6	71.8	93.0	113.2	142.6	143.6	179.0	207.3	231.6
80°	23.3	24.3	30.3	38.4	49.5	65.7	87.0	88.0	108.2	130.4	146.6
82.5°	12.1	13.1	16.2	20.2	26.3	34.4	48.5	48.5	64.7	76.8	87.0
85°	4.0	4.0	6.1	8.1	11.1	14.2	19.2	19.2	28.3	37.4	43.5
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	4.0	4.0	5.1	6.1	10.1
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°	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0	4535.0
2.5°	4514.7	4483.4	4484.4	4490.5	4471.3	4441.9	4422.7	4398.5	4383.3	4380.3	4391.4
5°	4450.0	4413.6	4388.4	4362.1	4307.5	4242.8	4192.2	4150.7	4123.4	4113.3	4101.2
7.5°	4361.1	4313.5	4249.8	4176.0	4076.9	3961.7	3880.8	3804.9	3752.3	3737.2	3730.1
10°	4272.1	4203.3	4090.1	3952.6	3787.7	3632.0	3485.4	3373.2	3284.2	3233.6	3249.8
12.5°	4180.1	4095.1	3918.2	3706.8	3477.3	3242.7	3050.6	2864.6	2721.0	2649.2	2628.0
15°	4099.2	3983.9	3737.2	3451.0	3145.7	2850.4	2572.3	2293.3	2111.3	2012.2	1984.9
17.5°	4030.4	3880.8	3546.1	3190.2	2825.1	2404.5	2062.7	1803.9	1679.5	1624.9	1620.9
20°	3962.7	3779.6	3357.0	2909.1	2455.1	1983.9	1678.5	1557.2	1512.7	1493.5	1492.4
22.5°	3902.0	3673.5	3157.8	2628.0	2087.0	1667.4	1499.5	1446.9	1434.8	1434.8	1432.8
25°	3850.4	3567.3	2953.5	2329.7	1754.3	1484.4	1406.5	1384.3	1389.3	1398.4	1399.4
27.5°	3829.2	3484.4	2756.4	2023.3	1524.8	1378.2	1342.8	1339.8	1353.9	1368.1	1370.1
30°	3851.4	3427.8	2554.1	1730.1	1387.3	1313.5	1297.3	1303.4	1320.6	1334.7	1334.7
32.5°	3920.2	3399.5	2347.9	1515.7	1307.4	1268.0	1262.9	1269.0	1282.1	1290.2	1291.2
35°	4036.5	3410.6	2134.5	1371.1	1255.8	1234.6	1233.6	1237.6	1242.7	1247.7	1248.8
37.5°	4183.1	3460.1	1906.0	1287.2	1222.5	1210.3	1208.3	1207.3	1208.3	1208.3	1209.3
40°	4326.7	3535.0	1701.8	1237.6	1199.2	1189.1	1184.0	1177.0	1176.0	1173.9	1172.9
42.5°	4432.8	3592.6	1539.0	1202.2	1178.0	1165.8	1159.8	1148.7	1147.6	1146.6	1145.6
45°	4512.7	3641.1	1403.5	1167.9	1155.7	1144.6	1131.5	1121.4	1123.4	1125.4	1125.4
47.5°	4602.7	3683.6	1304.4	1135.5	1128.4	1117.3	1101.1	1094.1	1101.1	1108.2	1108.2
50°	4711.9	3743.2	1223.5	1103.2	1100.1	1087.0	1072.8	1069.8	1077.9	1088.0	1088.0
52.5°	4791.8	3794.8	1165.8	1070.8	1070.8	1053.6	1041.5	1040.5	1049.6	1059.7	1060.7
55°	4941.5	3915.1	1145.6	1033.4	1029.3	1016.2	1007.1	1000.0	1011.1	1020.2	1020.2
57.5°	5110.3	4074.9	1150.7	979.8	974.7	970.7	963.6	955.5	958.6	968.7	969.7
60°	4752.4	3765.5	1095.1	926.2	923.2	921.2	912.1	897.9	901.9	910.0	911.0
62.5°	3319.6	2502.6	885.8	859.5	869.6	868.6	856.4	840.3	841.3	852.4	852.4
65°	1723.0	1353.9	777.6	798.8	814.0	807.9	787.7	773.5	771.5	785.7	782.6
67.5°	743.2	739.1	707.8	735.1	751.3	738.1	716.9	693.6	695.7	700.7	696.7
70°	598.6	616.8	629.9	659.3	672.4	648.1	624.9	611.7	600.6	599.6	592.5
72.5°	478.3	503.5	532.9	563.2	567.3	543.0	513.7	501.5	484.3	483.3	476.2
75°	360.0	381.2	404.5	428.7	428.7	405.5	386.3	380.2	360.0	353.9	347.8
77.5°	245.7	258.9	277.1	283.1	289.2	280.1	260.9	250.8	227.5	221.4	213.4
80°	154.7	163.8	174.9	179.0	185.0	173.9	158.7	147.6	131.4	126.4	122.3
82.5°	93.0	99.1	106.2	108.2	113.2	105.2	91.0	82.9	73.8	69.8	66.7
85°	47.5	50.6	54.6	55.6	54.6	46.5	41.5	37.4	31.3	30.3	28.3
87.5°	12.1	14.2	15.2	14.2	13.1	10.1	7.1	5.1	2.0	2.0	1.0
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



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

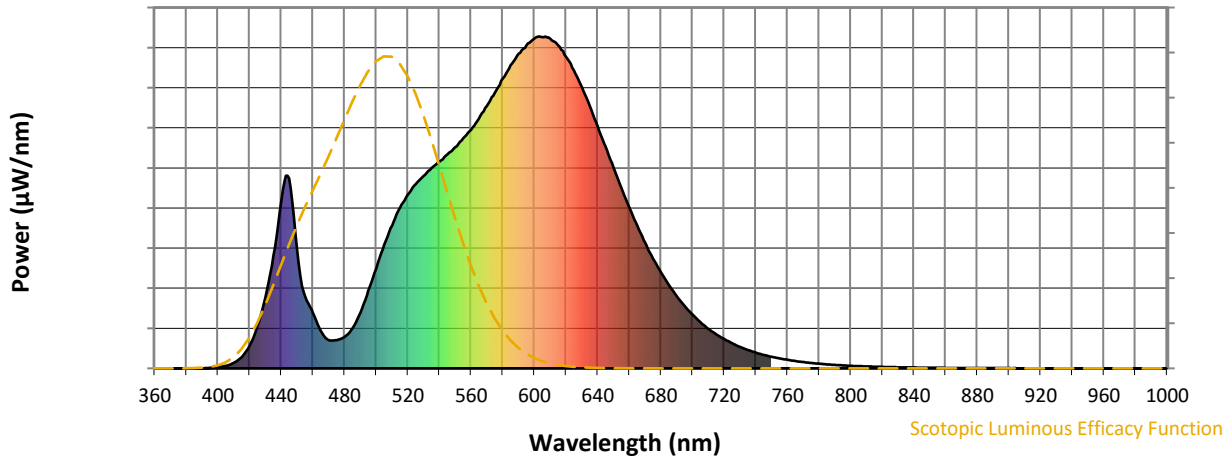


Photopic Lumens: NR

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			

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)