

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: P636485

Luminaire Tested: GWS-SA3F-830-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-830-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19779 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

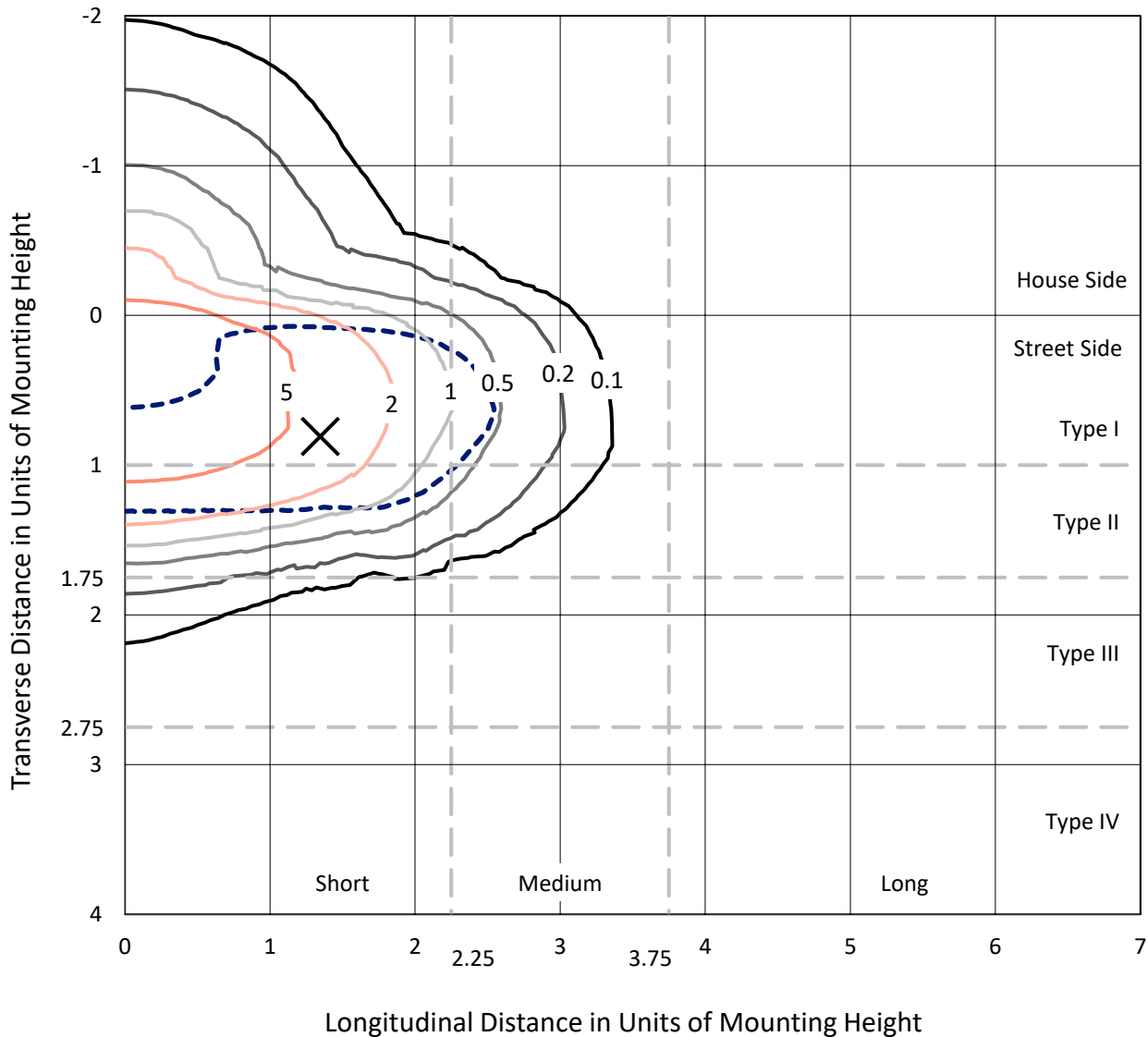
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636485
 CATALOG NUMBER: GWS-SA3F-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

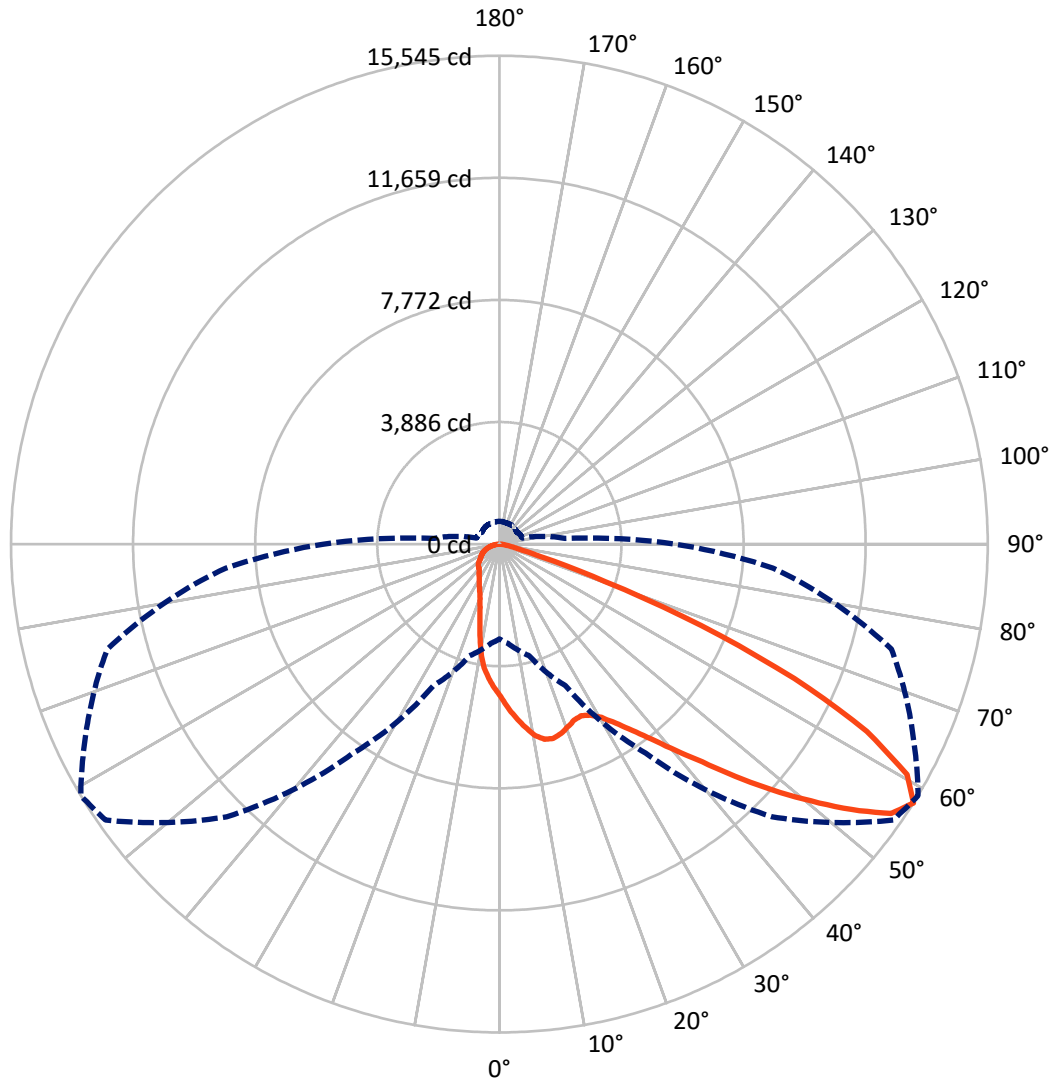
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

REPORT NUMBER: P636485
CATALOG NUMBER: GWS-SA3F-830-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P636485

CATALOG NUMBER: GWS-SA3F-830-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3069.6	0.0	3069.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	16709.4	0.0	16709.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	19779.0	0.0	19779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.8	2.3
10°-20°	1142.4	5.8
20°-30°	1851.8	9.4
30°-40°	2978.9	15.1
40°-50°	4626.0	23.4
50°-60°	4982.8	25.2
60°-70°	2891.8	14.6
70°-80°	754.9	3.8
80°-90°	99.4	0.5
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°	19779.0	100.0
0°-180°	19779.0	100.0

Coefficient of Utilization



REPORT NUMBER: P636485

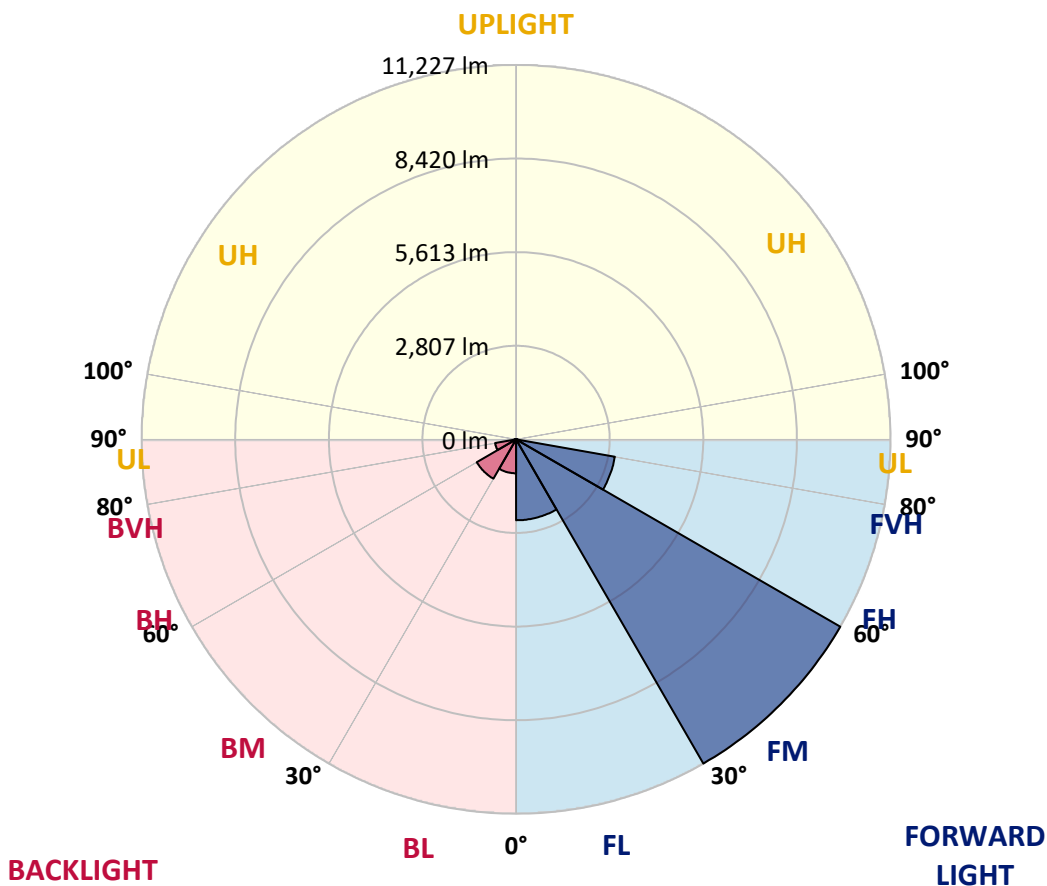
CATALOG NUMBER: GWS-SA3F-830-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.7	12.3			
FM (30°-60°)	11226.8	56.8			
FH (60°-80°)	3008.3	15.2			G2/5000
FVH (80°-90°)	47.6	0.2			G1/100
BL (0°-30°)	1018.4	5.1	B3/2500		
BM (30°-60°)	1360.9	6.9	B2/2500		
BH (60°-80°)	638.5	3.2	B2/1000		G2/1000
BVH (80°-90°)	51.8	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





REPORT NUMBER: P636485
 CATALOG NUMBER: GWS-SA3F-830-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3
2.5°	5507.0	5461.0	5493.1	5436.0	5412.3	5349.7	5268.9	5214.6	5131.0	5022.4	4927.8
5°	6054.2	6022.2	6029.2	5967.9	5913.6	5809.2	5643.5	5551.6	5409.5	5190.9	4987.6
7.5°	6037.5	6075.1	6096.0	6148.9	6164.2	6154.5	6005.5	5877.4	5721.4	5392.8	5086.5
10°	5412.3	5483.3	5547.4	5728.4	5948.4	6226.9	6261.7	6185.1	6027.8	5650.4	5204.8
12.5°	4731.4	4785.7	4842.8	5060.0	5397.0	5954.0	6331.3	6378.7	6316.0	5905.2	5338.5
15°	4397.2	4422.3	4476.6	4620.0	4888.8	5507.0	6210.2	6417.6	6530.4	6175.4	5488.9
17.5°	4383.3	4394.5	4420.9	4497.5	4684.1	5161.7	5991.6	6339.7	6698.9	6460.8	5664.3
20°	4671.6	4642.3	4625.6	4624.2	4716.1	5046.1	5779.9	6214.3	6778.3	6753.2	5852.3
22.5°	5071.2	5080.9	5044.7	4955.6	4944.5	5128.3	5674.1	6087.6	6801.9	7012.2	6026.4
25°	5637.9	5686.6	5579.4	5409.5	5326.0	5366.4	5739.5	6048.6	6799.2	7228.0	6135.0
27.5°	6299.3	6336.9	6228.3	6005.5	5832.8	5735.4	5934.5	6164.2	6822.8	7414.6	6200.4
30°	7052.6	7065.1	6916.1	6682.2	6430.2	6221.3	6258.9	6402.3	6944.0	7659.7	6277.0
32.5°	7973.0	8025.9	7800.3	7429.9	7077.6	6810.3	6694.7	6786.6	7205.7	7949.3	6395.4
35°	9141.2	9159.3	8872.5	8342.0	7843.5	7473.1	7230.8	7279.5	7604.0	8354.5	6573.6
37.5°	10242.6	10260.7	9955.8	9462.8	8749.9	8243.1	7892.2	7869.9	8113.6	8926.8	6864.6
40°	10941.6	10993.1	10856.7	10547.5	9866.6	9183.0	8706.8	8630.2	8782.0	9627.2	7269.8
42.5°	11317.5	11339.8	11337.0	11377.4	10972.2	10292.7	9625.8	9472.6	9574.2	10383.2	7679.2
45°	11320.3	11376.0	11525.0	11913.5	11931.6	11508.3	10787.0	10547.5	10454.2	11144.9	8106.6
47.5°	10813.5	10873.4	11282.7	12047.2	12611.1	12707.2	12178.1	11697.7	11305.0	11800.7	8457.5
50°	9279.0	9429.4	10209.2	11561.2	12744.8	13667.9	13505.0	12853.4	12061.1	12307.6	8677.5
52.5°	7946.5	7940.9	8421.3	10188.3	12186.4	14091.2	14788.8	14042.5	12808.8	12629.2	8733.2
55°	5818.9	5850.9	6342.4	7792.0	10696.5	13681.9	15494.8	15136.9	13666.5	12800.5	8710.9
57.5°	3017.4	3176.1	3680.2	4972.3	8127.5	12272.7	15306.8	15544.9	14538.2	12921.6	8740.2
60°	1524.7	1494.1	1675.1	2374.1	4709.1	9585.4	14148.3	14907.2	14695.5	13016.3	8758.3
62.5°	1017.9	1009.5	959.4	1100.0	1924.3	5676.9	12061.1	13124.9	13602.5	12793.5	8527.1
65°	881.4	864.7	772.8	767.2	934.3	2354.6	8840.4	10317.8	11242.4	11803.5	7974.4
67.5°	793.7	768.6	675.3	629.4	671.1	1034.6	4982.1	6920.3	8301.6	9982.2	6763.0
70°	708.7	696.2	602.9	536.1	531.9	630.8	1835.2	3571.5	5079.5	6810.3	4944.5
72.5°	634.9	612.7	533.3	469.2	437.2	447.0	796.5	1375.7	2628.9	4248.3	2957.5
75°	550.0	533.3	463.7	399.6	360.6	327.2	486.0	636.3	1198.9	2019.0	1396.6
77.5°	424.7	413.5	366.2	317.5	295.2	243.7	295.2	401.0	554.2	850.8	726.8
80°	246.5	253.4	272.9	247.8	217.2	174.1	192.2	231.1	332.8	460.9	412.2
82.5°	123.9	132.3	176.8	143.4	129.5	101.6	114.2	136.5	174.1	254.8	161.5
85°	9.7	9.7	32.0	36.2	44.6	36.2	45.9	55.7	79.4	101.6	54.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	7.0	12.5	23.7	15.3
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: P636485

CATALOG NUMBER: GWS-SA3F-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3	4855.3
2.5°	4863.7	4792.7	4707.8	4638.1	4530.9	4473.8	4401.4	4312.3	4276.1	4259.4	4249.6
5°	4873.5	4748.1	4567.1	4400.0	4214.8	4068.6	3905.7	3735.8	3638.4	3614.7	3598.0
7.5°	4909.7	4734.2	4446.0	4170.3	3826.4	3507.5	3197.0	2889.3	2731.9	2672.0	2666.5
10°	4959.8	4728.6	4323.4	3865.3	3284.7	2780.7	2417.2	2176.3	2074.7	2041.3	2030.1
12.5°	5022.4	4724.5	4161.9	3442.0	2659.5	2183.3	1975.8	1936.8	1950.8	1948.0	1948.0
15°	5101.8	4730.0	3967.0	2963.1	2151.3	1895.1	1899.3	1945.2	1988.4	1995.3	1995.3
17.5°	5188.1	4724.5	3684.3	2482.7	1846.3	1826.8	1890.9	1954.9	1993.9	1999.5	1999.5
20°	5281.4	4698.0	3327.9	2030.1	1712.7	1783.7	1853.3	1903.4	1927.1	1932.7	1932.7
22.5°	5337.1	4622.8	2940.8	1718.2	1627.7	1715.5	1761.4	1812.9	1815.7	1771.2	1769.8
25°	5328.8	4482.2	2499.4	1517.7	1537.2	1613.8	1672.3	1636.1	1591.5	1566.5	1562.3
27.5°	5275.9	4270.5	2049.6	1366.0	1430.0	1516.3	1498.2	1467.6	1456.5	1428.6	1425.8
30°	5209.0	4010.2	1645.8	1247.6	1318.6	1398.0	1370.1	1367.4	1356.2	1325.6	1325.6
32.5°	5145.0	3741.4	1340.9	1159.9	1247.6	1253.2	1292.2	1294.9	1289.4	1236.5	1230.9
35°	5126.9	3472.7	1134.8	1090.3	1178.0	1175.2	1230.9	1229.5	1133.4	1059.6	1058.2
37.5°	5181.2	3199.8	1012.3	1033.2	1081.9	1118.1	1162.7	1081.9	1049.9	1005.3	1002.5
40°	5296.7	2947.7	949.6	999.8	1020.6	1073.6	1003.9	1009.5	1001.1	967.7	963.6
42.5°	5449.9	2733.3	914.8	988.6	985.8	999.8	923.2	945.4	958.0	932.9	928.7
45°	5597.5	2546.7	896.7	946.8	960.8	880.0	864.7	885.6	905.1	895.3	891.1
47.5°	5706.1	2385.2	887.0	889.8	928.7	839.6	814.6	824.3	848.0	852.2	850.8
50°	5739.5	2247.4	875.8	842.4	834.1	799.2	779.8	777.0	804.8	824.3	827.1
52.5°	5675.5	2124.8	846.6	800.6	760.3	765.8	758.9	744.9	772.8	799.2	802.0
55°	5580.8	2055.2	800.6	760.3	712.9	735.2	738.0	725.4	743.5	761.7	761.7
57.5°	5587.8	2095.6	756.1	722.7	671.1	700.4	715.7	710.1	710.1	724.1	725.4
60°	5633.7	2154.1	726.8	675.3	629.4	660.0	694.8	689.2	676.7	694.8	694.8
62.5°	5501.4	2076.1	707.3	629.4	584.8	621.0	662.8	660.0	646.1	675.3	678.1
65°	5111.6	1867.2	685.1	572.3	540.3	582.0	618.2	628.0	615.4	654.4	661.4
67.5°	4284.5	1570.6	641.9	518.0	495.7	534.7	569.5	583.4	573.7	619.6	625.2
70°	3194.2	1271.3	573.7	458.1	441.4	476.2	508.2	513.8	515.2	569.5	575.1
72.5°	2037.1	988.6	483.2	391.3	378.7	405.2	428.9	451.1	460.9	512.4	511.0
75°	1136.2	735.2	388.5	331.4	309.1	330.0	357.9	384.3	412.2	487.3	495.7
77.5°	654.4	516.6	307.7	266.0	239.5	261.8	285.4	323.0	406.6	472.0	463.7
80°	369.0	335.6	232.5	194.9	178.2	194.9	213.0	284.1	320.3	348.1	352.3
82.5°	172.7	188.0	158.7	119.7	119.7	130.9	147.6	220.0	242.3	197.7	172.7
85°	62.7	84.9	78.0	61.3	54.3	52.9	91.9	125.3	78.0	69.6	59.9
87.5°	16.7	23.7	22.3	15.3	8.4	7.0	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

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)