

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: P630083

Luminaire Tested: GWS-SA1C-830-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-830-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2803.2 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

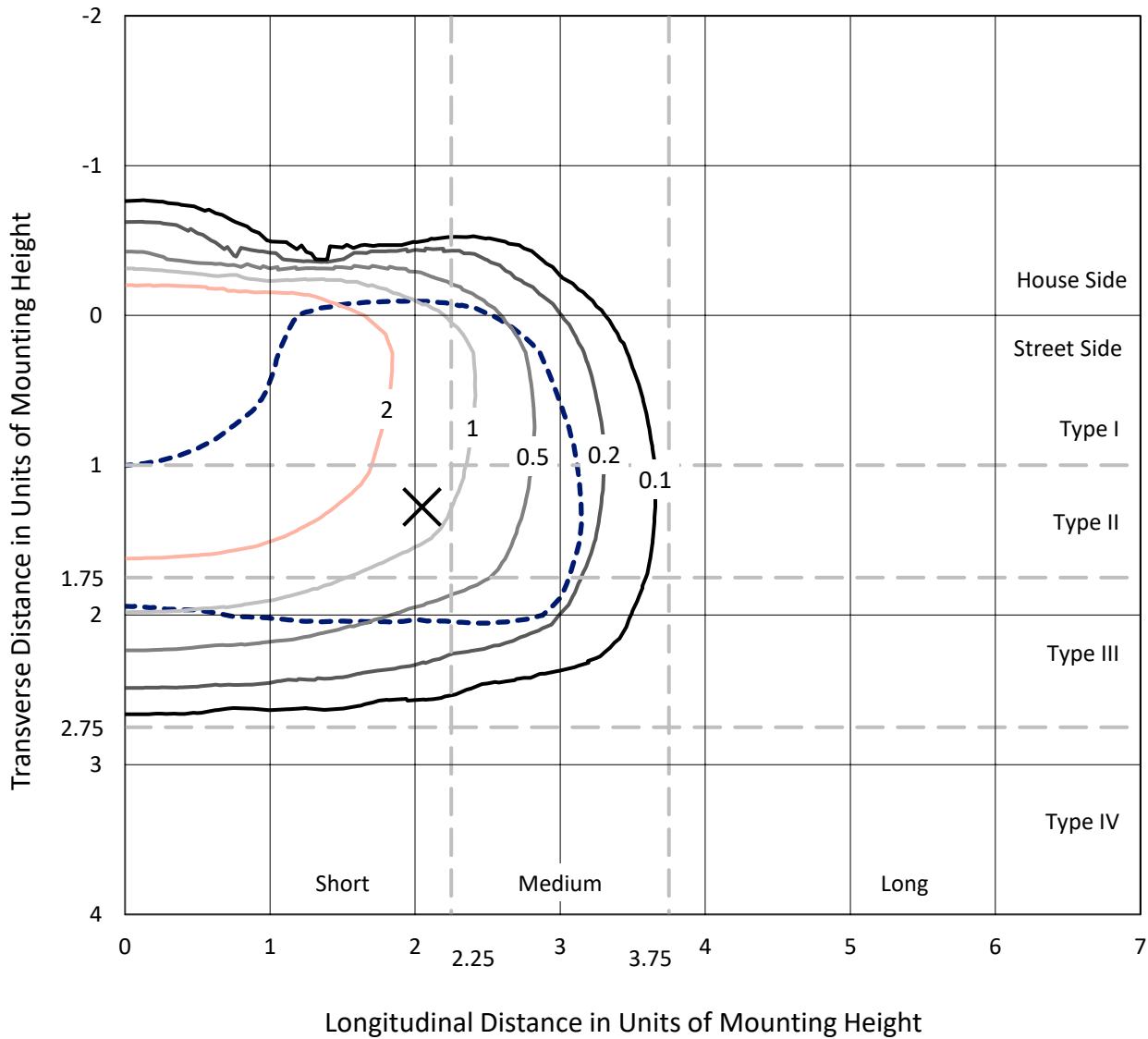
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

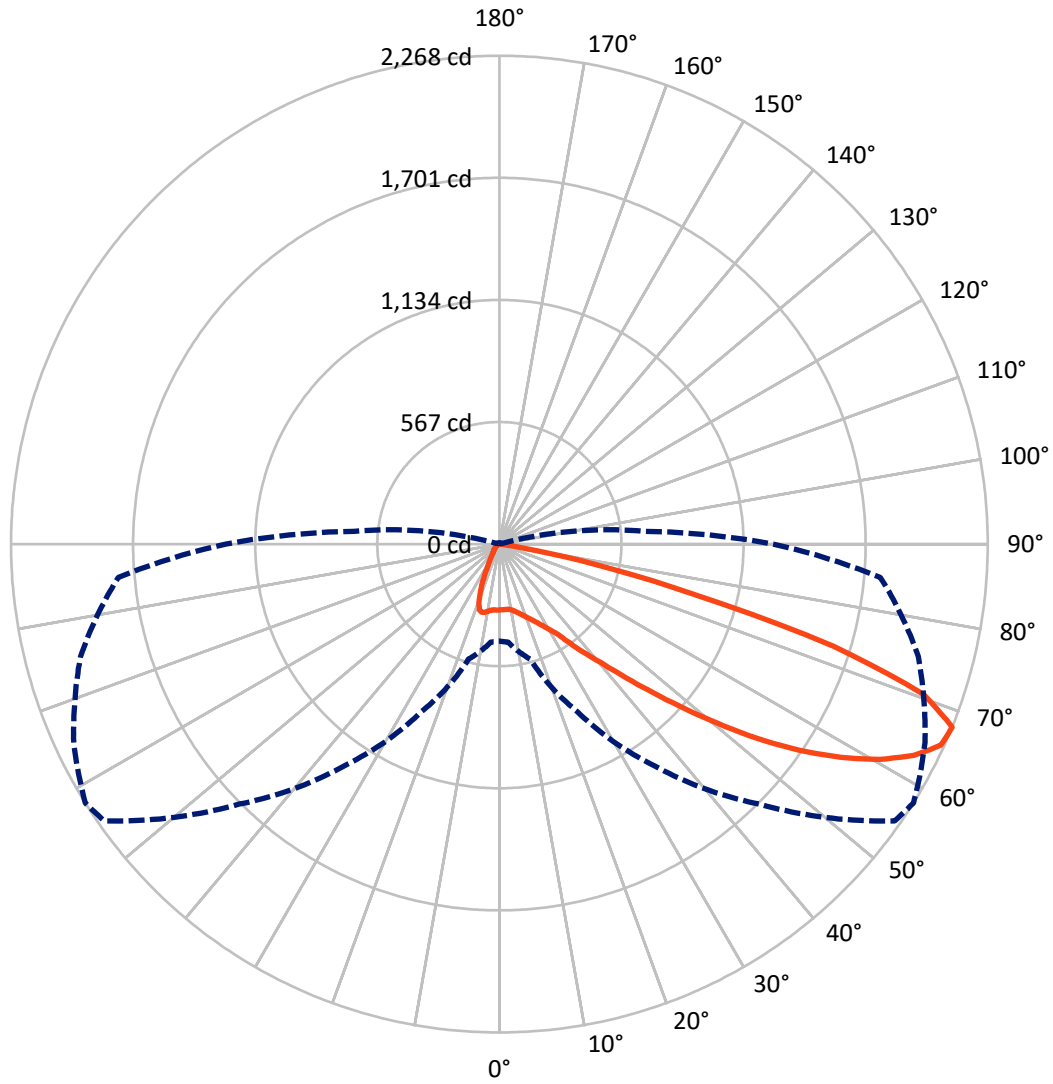
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

REPORT NUMBER: P630083
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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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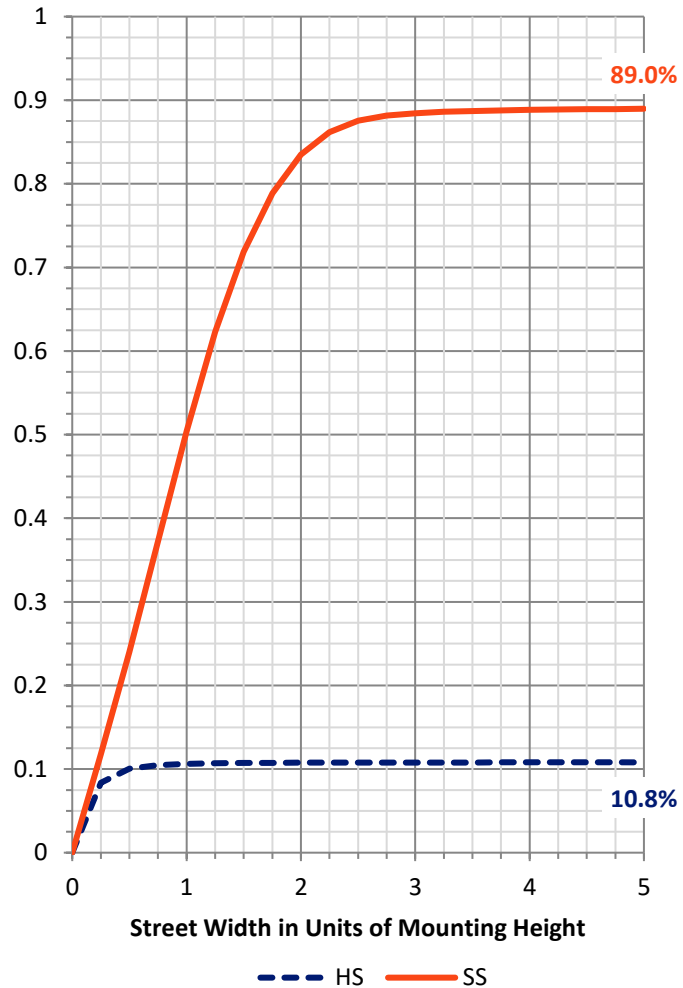
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	305.8	0.0	305.8
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	2497.4	0.0	2497.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	2803.2	0.0	2803.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	1.0
10°-20°	80.6	2.9
20°-30°	140.6	5.0
30°-40°	251.2	9.0
40°-50°	459.1	16.4
50°-60°	763.5	27.2
60°-70°	829.2	29.6
70°-80°	243.5	8.7
80°-90°	6.9	0.2
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°	2803.2	100.0
0°-180°	2803.2	100.0

Coefficient of Utilization



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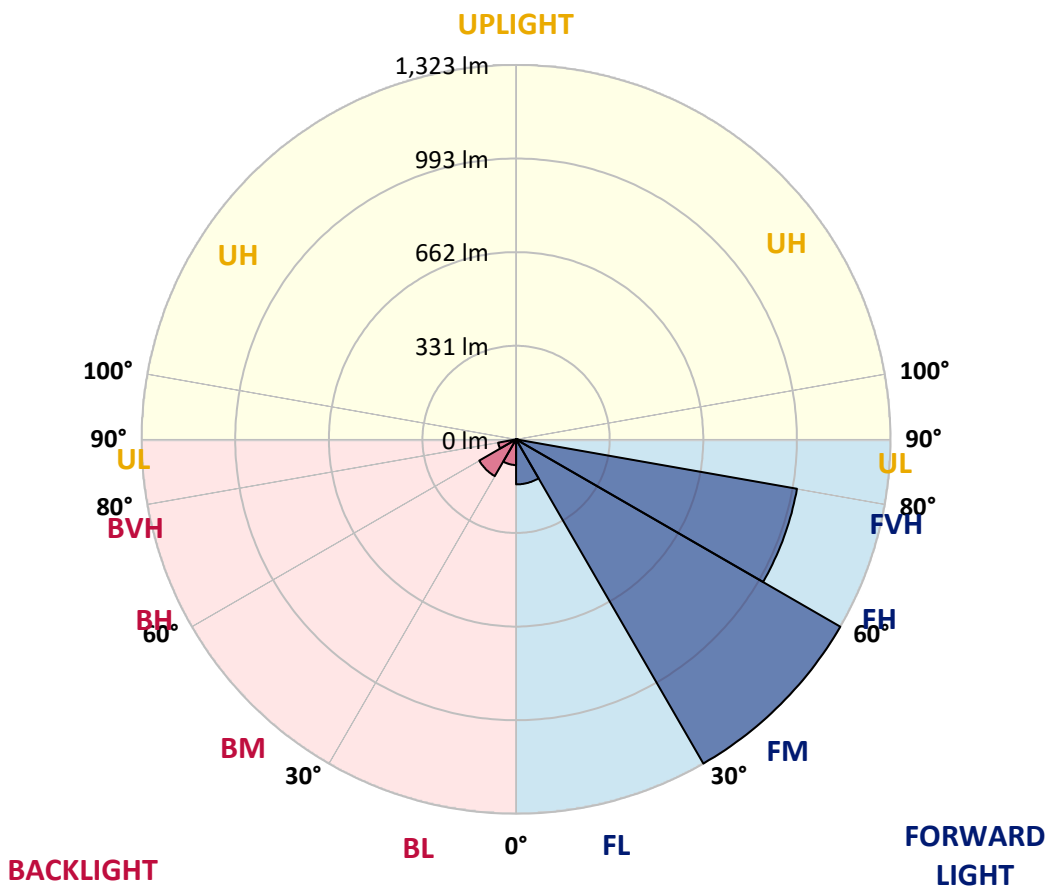
CATALOG NUMBER: GWS-SA1C-830-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	159.2	5.7			
FM (30°-60°)	1323.4	47.2			
FH (60°-80°)	1008.2	36.0			G1/1800
FVH (80°-90°)	6.6	0.2			G0/10
BL (0°-30°)	90.7	3.2	B0/110		
BM (30°-60°)	150.2	5.4	B0/220		
BH (60°-80°)	64.6	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





REPORT NUMBER: P630083

CATALOG NUMBER: GWS-SA1C-830-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5
2.5°	299.7	299.2	299.2	301.4	301.6	302.7	305.2	305.5	306.8	306.3	304.4
5°	284.1	284.4	286.0	289.9	293.1	297.3	303.3	304.6	307.7	309.3	308.2
7.5°	269.6	269.9	272.3	278.4	284.7	292.9	302.7	305.5	311.5	315.9	316.1
10°	264.1	263.9	266.3	273.2	281.4	292.9	307.1	310.7	319.7	327.4	328.7
12.5°	265.8	265.5	268.0	274.3	283.3	297.8	314.8	319.7	331.2	343.0	345.4
15°	272.3	272.1	273.7	278.9	288.8	303.8	324.6	332.0	346.5	360.8	364.6
17.5°	292.1	290.7	289.0	289.6	295.3	310.9	337.2	346.2	364.3	381.3	384.6
20°	327.1	323.5	319.2	313.4	310.7	321.3	351.7	362.1	384.0	403.5	404.0
22.5°	379.9	378.5	368.4	351.7	340.0	340.2	368.7	380.7	407.6	428.9	425.9
25°	453.5	452.7	437.1	409.8	379.1	368.7	390.3	402.6	435.5	458.2	448.6
27.5°	545.0	539.2	520.9	483.9	438.2	405.6	417.7	428.6	465.0	486.4	468.3
30°	624.6	624.9	607.6	569.1	517.6	461.2	451.1	460.7	492.1	514.6	492.7
32.5°	701.3	703.7	684.8	650.1	593.7	533.7	499.0	500.6	526.9	551.3	524.7
35°	772.4	774.3	761.2	731.6	679.1	609.6	565.8	564.9	579.2	604.1	569.3
37.5°	852.1	854.0	841.1	814.6	765.3	696.3	641.6	640.5	646.2	666.5	626.8
40°	936.9	940.5	926.2	903.8	856.7	798.4	729.7	719.9	714.1	737.9	701.3
42.5°	1022.9	1028.3	1023.4	1001.0	960.7	912.6	844.1	828.8	816.5	846.3	807.5
45°	1129.6	1136.2	1134.0	1116.8	1085.6	1046.4	981.8	964.0	958.3	985.9	939.7
47.5°	1232.3	1239.4	1247.3	1243.5	1221.3	1203.2	1131.5	1121.4	1119.8	1149.3	1077.6
50°	1308.6	1315.2	1345.6	1367.5	1382.5	1378.7	1316.6	1301.5	1299.0	1317.9	1223.2
52.5°	1363.4	1369.7	1411.5	1480.0	1535.3	1565.4	1502.7	1499.4	1486.0	1479.4	1359.5
55°	1405.8	1414.6	1458.6	1562.1	1673.5	1740.3	1701.1	1689.4	1654.9	1617.1	1486.0
57.5°	1414.3	1417.8	1480.0	1619.6	1780.8	1888.9	1888.9	1868.4	1801.9	1749.6	1632.2
60°	1338.2	1349.1	1433.2	1614.9	1826.8	1986.1	2044.6	2030.4	1940.6	1876.3	1772.8
62.5°	1169.3	1181.6	1284.0	1503.5	1780.8	2006.1	2162.6	2160.4	2059.2	1981.1	1889.4
65°	896.7	905.7	995.0	1257.7	1586.4	1929.1	2246.9	2252.9	2152.8	2050.4	1929.7
67.5°	450.5	456.8	553.2	859.2	1257.4	1707.7	2241.2	2268.0	2181.2	2013.7	1776.1
70°	157.4	163.7	209.1	368.7	765.3	1304.0	2047.4	2091.2	2014.0	1718.9	1310.3
72.5°	53.9	56.9	86.8	136.9	297.8	773.0	1556.9	1622.9	1484.6	1154.0	753.0
75°	30.7	32.6	46.5	74.2	124.8	254.3	883.3	923.8	865.5	629.0	309.8
77.5°	20.8	22.4	29.0	42.2	69.0	81.8	360.2	453.5	395.5	205.3	79.1
80°	12.3	13.4	17.8	24.9	35.3	31.8	77.2	102.6	132.2	61.3	23.8
82.5°	5.7	6.6	11.5	16.4	17.8	13.4	22.7	27.6	37.2	30.1	9.9
85°	0.0	0.0	3.8	6.8	6.6	3.8	6.3	6.8	10.1	15.1	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.8	1.6	3.0	1.6
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: P630083

CATALOG NUMBER: GWS-SA1C-830-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5
2.5°	306.6	304.6	306.8	305.7	306.8	306.6	304.4	303.0	303.0	300.5	299.7
5°	310.4	308.5	309.0	306.6	306.0	304.6	301.9	300.8	300.8	298.3	297.5
7.5°	318.9	315.9	315.3	310.4	308.2	304.4	299.4	297.5	297.3	294.8	294.0
10°	332.3	328.7	326.3	320.0	313.7	306.0	295.6	286.9	281.9	275.4	274.8
12.5°	348.7	344.3	340.5	330.9	320.5	303.3	272.6	240.6	220.9	205.3	206.4
15°	367.1	362.9	356.9	342.4	321.1	276.2	212.1	162.9	138.8	125.9	125.4
17.5°	387.0	381.0	371.2	351.4	303.8	211.0	138.0	97.4	84.9	80.5	79.4
20°	405.6	398.3	385.9	353.4	254.0	142.9	86.2	75.5	73.4	72.0	72.0
22.5°	425.4	416.0	397.7	338.6	188.9	91.4	73.4	70.9	69.2	67.3	67.1
25°	445.3	433.3	408.4	300.0	123.7	72.0	68.7	66.0	63.0	59.9	59.1
27.5°	462.3	446.7	416.6	242.5	79.4	64.9	62.7	58.0	53.9	50.6	50.1
30°	482.6	462.6	420.2	177.4	62.4	57.2	53.9	49.0	44.1	40.8	39.7
32.5°	509.7	487.8	414.7	115.5	55.3	50.4	45.2	39.4	34.5	30.9	30.4
35°	551.8	525.8	389.5	73.6	50.1	43.5	37.2	31.2	27.1	24.4	23.8
37.5°	603.3	579.2	348.2	55.3	44.9	37.8	30.4	24.6	21.6	19.7	19.2
40°	679.6	646.0	297.0	48.4	39.7	32.0	24.9	20.3	18.1	16.4	15.9
42.5°	778.7	724.8	238.1	44.1	34.8	26.8	20.3	16.7	14.8	13.7	13.4
45°	894.5	801.7	176.0	39.7	30.1	22.2	16.7	13.7	12.3	11.5	11.2
47.5°	1013.0	869.0	121.5	35.0	25.7	18.3	14.0	11.8	10.7	9.6	9.3
50°	1139.5	926.0	82.9	30.4	21.9	15.1	12.0	10.7	9.3	8.5	8.2
52.5°	1232.3	947.1	57.8	26.3	18.6	12.9	10.7	9.6	8.5	7.4	7.1
55°	1317.9	946.5	43.8	22.2	15.9	11.2	9.6	8.5	7.4	6.6	6.3
57.5°	1403.3	939.1	34.5	18.9	13.7	10.1	8.5	7.4	6.8	5.7	5.5
60°	1458.6	911.2	26.8	15.9	11.8	8.8	7.4	6.6	5.7	4.9	4.7
62.5°	1487.9	872.3	20.5	12.6	9.6	7.7	6.6	5.7	4.9	4.1	3.8
65°	1448.2	803.4	16.1	9.9	7.4	6.6	5.5	4.7	3.8	3.0	2.7
67.5°	1272.2	677.4	12.6	7.9	5.7	4.9	4.7	3.8	2.7	2.2	1.9
70°	899.2	463.9	9.9	6.0	4.4	3.8	3.6	3.0	2.2	1.6	1.4
72.5°	493.5	234.0	7.1	4.4	3.3	3.0	2.7	2.5	1.9	1.4	1.4
75°	190.0	64.3	5.2	3.0	2.2	2.2	1.9	1.9	1.6	1.1	1.1
77.5°	49.5	19.2	3.3	1.9	1.4	1.4	1.4	1.1	1.1	0.8	0.8
80°	15.9	6.3	1.9	1.4	1.1	0.8	0.8	0.5	0.8	0.5	0.5
82.5°	5.2	2.2	1.1	1.1	0.8	0.5	0.5	0.3	0.3	0.0	0.0
85°	1.9	1.1	0.8	0.5	0.5	0.5	0.3	0.0	0.0	0.0	0.0
87.5°	1.1	0.5	0.5	0.5	0.5	0.3	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

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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)