

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: P630572

Luminaire Tested: GWS-SA1D-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3229.1 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

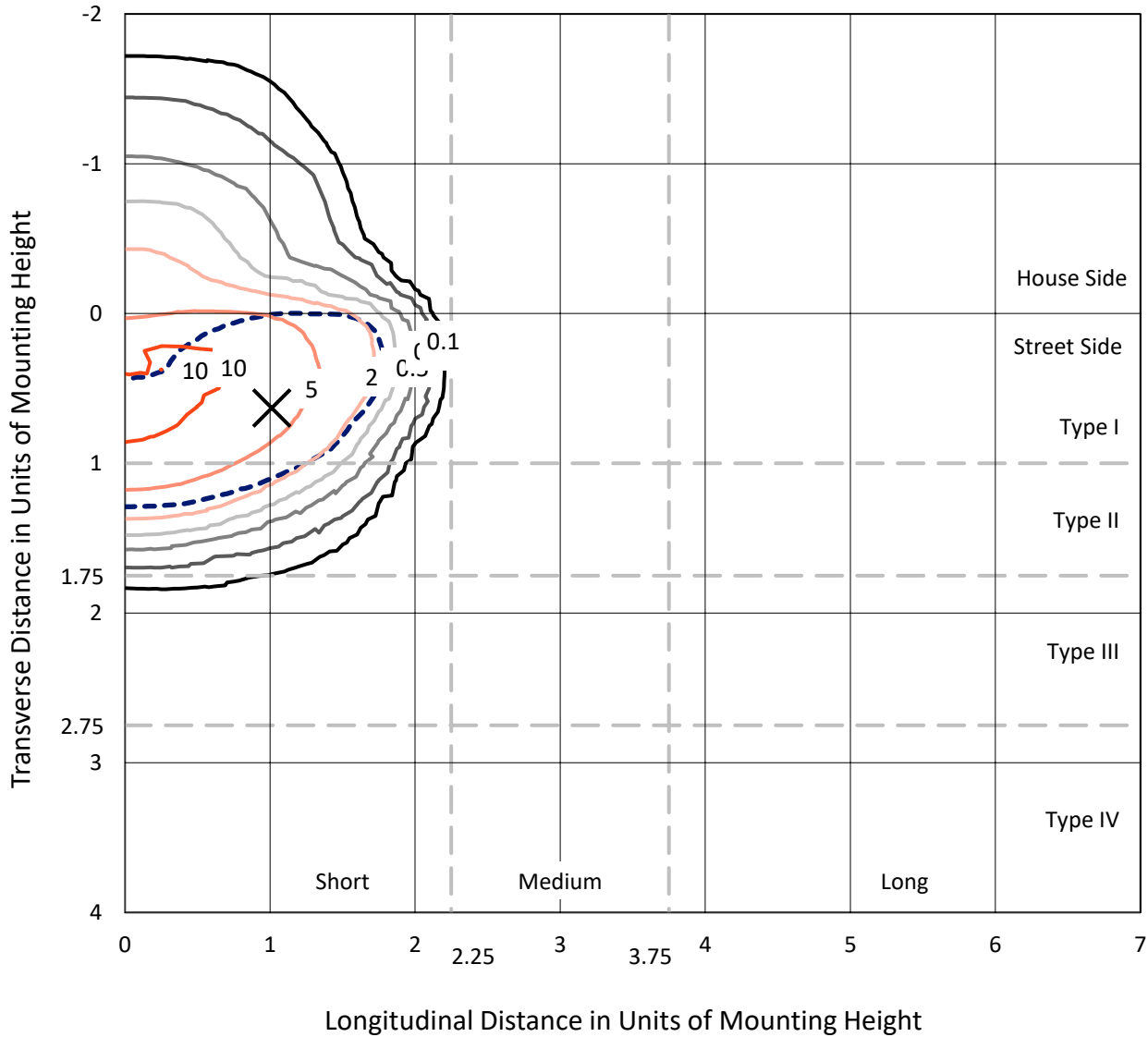
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

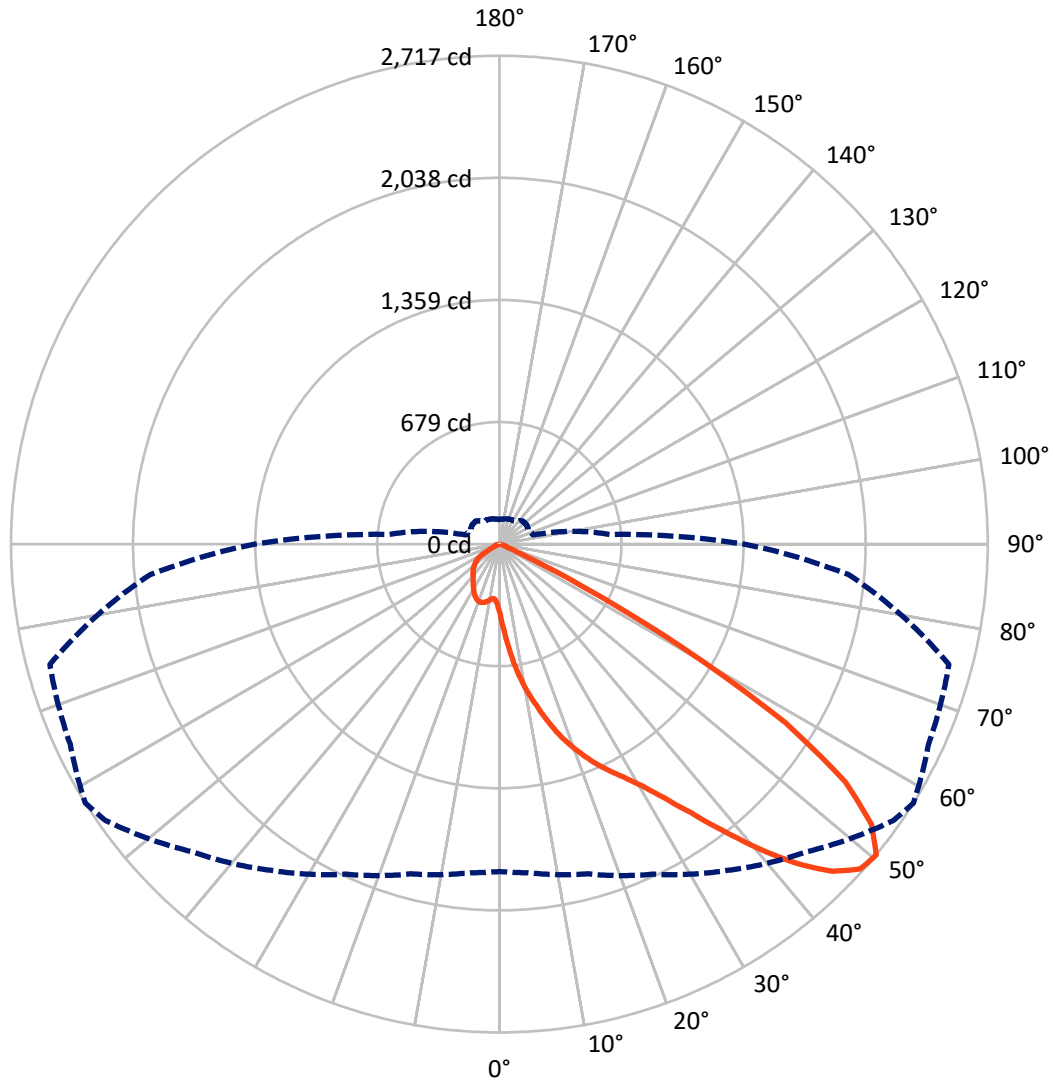
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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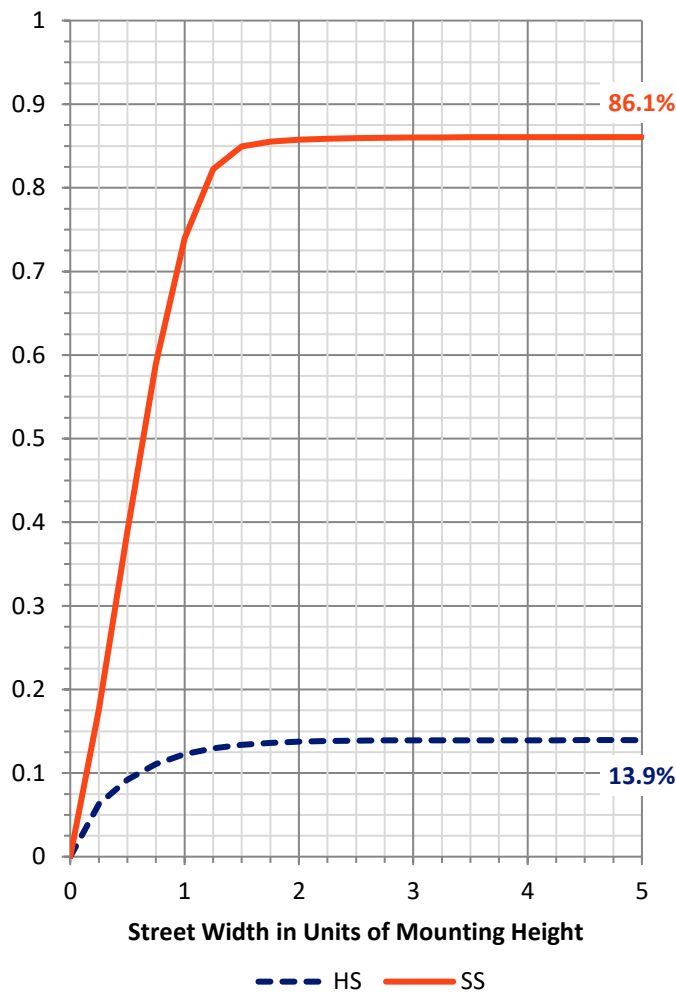
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	452.3	0.0	452.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2776.8	0.0	2776.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	3229.1	0.0	3229.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	1.5
10°-20°	189.2	5.9
20°-30°	382.8	11.9
30°-40°	677.2	21.0
40°-50°	987.2	30.6
50°-60°	791.2	24.5
60°-70°	142.5	4.4
70°-80°	11.2	0.3
80°-90°	0.0	0.0
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°	3229.1	100.0
0°-180°	3229.1	100.0

Coefficient of Utilization



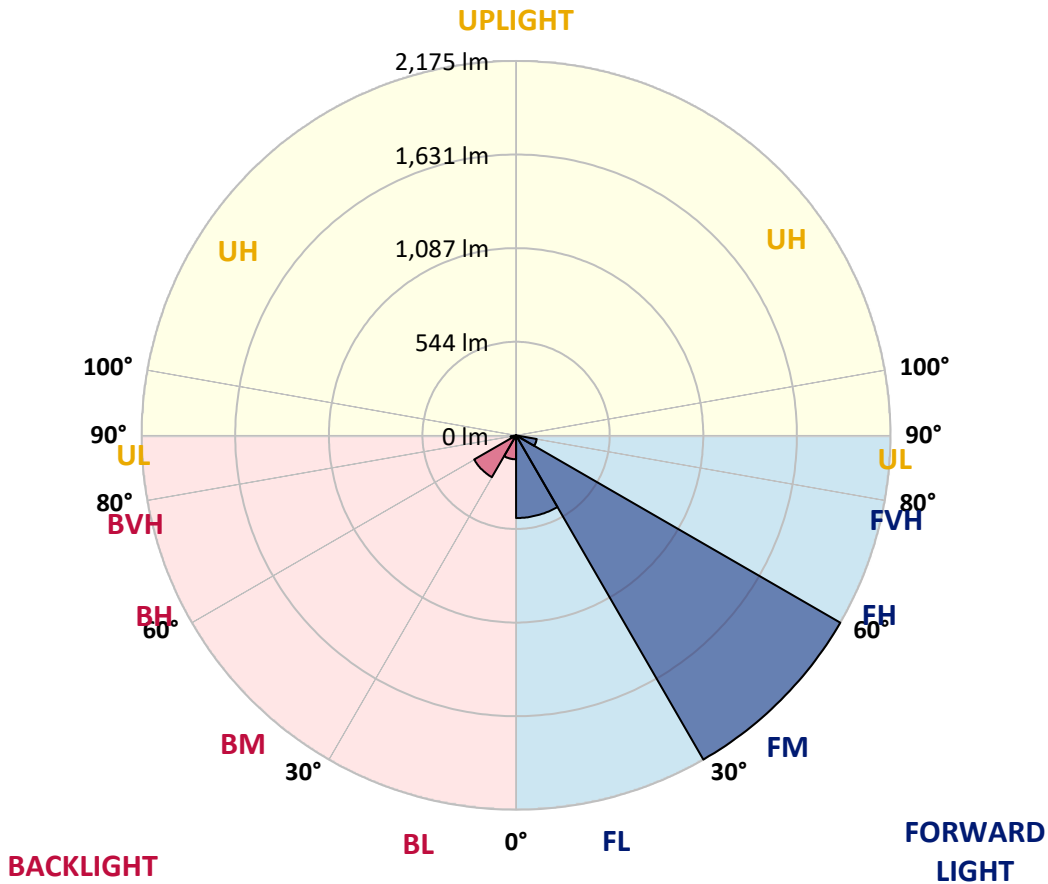
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.5	14.9			
FM (30°-60°)	2174.7	67.3			
FH (60°-80°)	121.6	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	139.2	4.3	B1/500		
BM (30°-60°)	280.9	8.7	B1/1000		
BH (60°-80°)	32.1	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7
2.5°	570.8	561.8	556.6	552.5	534.2	505.2	486.2	476.2	459.6	431.6	407.5
5°	744.8	738.3	726.2	717.9	694.4	653.3	610.9	593.9	556.3	493.1	436.5
7.5°	860.2	855.3	850.8	839.8	817.7	780.4	733.4	715.8	657.8	568.0	475.1
10°	948.9	945.1	939.9	939.6	922.3	888.8	842.9	824.6	761.8	649.5	520.7
12.5°	1026.9	1023.8	1022.8	1032.5	1021.4	996.6	946.8	924.0	857.4	732.7	571.1
15°	1080.5	1079.8	1084.3	1103.3	1109.5	1098.1	1056.3	1031.8	955.1	816.3	626.7
17.5°	1105.0	1107.1	1115.7	1148.5	1176.1	1185.8	1153.7	1133.0	1052.2	900.9	686.1
20°	1146.8	1146.1	1151.3	1182.3	1216.2	1250.7	1241.0	1223.4	1150.2	990.3	752.1
22.5°	1264.5	1254.5	1243.5	1248.3	1260.4	1300.8	1318.7	1309.8	1251.4	1082.2	820.1
25°	1445.5	1435.1	1399.5	1365.0	1342.2	1360.5	1385.0	1389.5	1351.9	1176.5	891.2
27.5°	1637.5	1628.1	1588.1	1536.3	1471.0	1439.2	1457.6	1466.5	1450.6	1288.7	966.9
30°	1817.4	1804.9	1761.1	1696.8	1621.2	1572.5	1551.8	1558.0	1567.4	1421.6	1055.6
32.5°	1973.4	1964.1	1911.6	1844.0	1771.1	1720.3	1672.0	1682.3	1705.1	1584.3	1169.2
35°	2105.7	2100.9	2045.3	1977.9	1900.9	1875.0	1833.6	1835.7	1858.5	1780.8	1307.7
37.5°	2220.7	2212.4	2162.0	2099.5	2038.4	2034.2	2022.8	2023.9	2035.6	2009.7	1466.9
40°	2293.2	2285.6	2249.7	2211.0	2167.5	2168.2	2227.2	2231.7	2218.3	2234.5	1635.0
42.5°	2320.5	2315.0	2295.6	2296.0	2291.5	2311.8	2422.7	2431.0	2382.6	2410.9	1778.7
45°	2273.2	2270.8	2272.1	2321.9	2375.7	2438.6	2582.6	2597.1	2528.7	2528.0	1890.9
47.5°	2120.5	2115.7	2156.1	2240.7	2365.4	2487.6	2679.3	2701.7	2630.9	2595.0	1961.4
50°	1821.5	1835.3	1899.2	2026.3	2215.8	2420.3	2678.2	2717.2	2634.7	2589.1	1949.6
52.5°	1319.4	1316.7	1456.5	1631.2	1861.9	2204.8	2536.0	2592.9	2542.5	2531.5	1923.4
55°	717.9	743.1	837.4	1068.7	1356.7	1797.0	2211.0	2335.3	2393.7	2510.4	1970.7
57.5°	263.8	274.9	333.9	497.6	718.2	1117.4	1688.9	1876.4	2056.7	2451.7	1962.7
60°	106.4	108.4	131.9	183.0	301.8	568.7	1013.1	1179.6	1349.5	1876.8	1506.2
62.5°	77.3	80.1	89.4	107.0	152.6	248.6	436.8	507.9	555.3	929.6	742.1
65°	62.5	64.6	72.2	80.1	100.8	133.6	140.9	135.7	135.0	240.3	170.2
67.5°	51.8	53.9	59.4	64.9	72.5	66.6	48.3	50.8	41.4	41.1	33.5
70°	38.0	40.4	45.9	51.8	43.5	18.0	28.0	41.4	31.4	26.2	25.6
72.5°	28.7	30.4	35.6	33.8	12.8	6.9	18.6	30.0	24.2	19.3	19.0
75°	21.4	22.4	18.0	5.5	1.4	1.7	6.9	12.4	13.5	11.0	11.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	1.4	1.7	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER: P630572

CATALOG NUMBER: GWS-SA1D-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7
2.5°	393.7	379.1	358.4	341.2	328.0	315.3	305.6	295.9	295.6	290.8	289.7
5°	410.2	384.0	346.0	318.7	302.1	292.1	285.2	281.8	280.0	278.3	277.6
7.5°	434.1	396.4	343.9	314.9	301.1	294.5	289.7	287.6	286.6	285.2	284.9
10°	463.4	414.4	351.5	322.2	310.1	303.9	298.7	295.6	293.9	291.4	290.8
12.5°	498.6	436.5	363.6	334.3	321.5	313.2	306.3	301.8	299.4	296.3	295.6
15°	536.6	460.3	377.1	345.3	330.1	319.4	310.8	303.9	299.4	295.6	294.5
17.5°	576.0	484.5	389.2	352.9	334.3	321.5	309.1	299.7	294.2	289.4	288.0
20°	620.2	509.3	397.1	354.3	332.9	316.0	301.5	289.7	284.2	277.6	276.2
22.5°	666.4	532.5	400.6	351.2	325.3	305.6	290.1	278.0	270.0	263.1	261.1
25°	711.3	553.2	398.8	342.5	313.9	291.1	275.2	262.8	254.1	247.2	245.5
27.5°	759.0	570.5	392.6	329.8	298.3	275.2	260.0	249.3	241.4	233.8	232.0
30°	812.5	586.3	382.6	314.2	280.0	259.0	247.2	240.0	231.4	223.4	221.0
32.5°	877.1	600.5	368.1	295.6	263.8	244.8	238.3	232.7	222.7	214.4	212.7
35°	951.0	612.2	349.8	276.2	247.9	235.8	234.5	227.2	214.1	204.4	202.4
37.5°	1036.6	623.6	328.0	257.3	236.2	231.7	232.0	219.6	203.7	192.0	190.6
40°	1128.8	635.0	303.9	240.7	225.5	229.3	226.2	208.6	182.7	171.3	169.9
42.5°	1224.8	647.5	279.4	225.1	216.5	220.0	215.5	186.5	167.8	162.0	161.3
45°	1311.5	662.3	252.8	209.6	207.5	206.5	198.9	168.9	160.9	156.8	156.4
47.5°	1374.0	659.9	224.5	194.8	197.9	194.4	171.3	160.6	154.0	148.5	147.1
50°	1362.6	617.8	195.1	178.2	185.4	182.3	154.0	150.9	145.0	139.2	137.1
52.5°	1333.6	560.4	169.5	160.6	172.0	164.7	142.3	139.2	134.0	126.4	124.0
55°	1349.1	506.6	149.5	146.4	158.2	136.4	129.1	124.3	118.8	110.5	109.5
57.5°	1299.1	413.3	120.2	122.2	139.9	116.4	113.3	105.7	96.3	90.8	90.1
60°	899.2	222.0	75.3	77.7	101.2	97.7	101.5	94.6	83.2	78.0	77.0
62.5°	413.0	89.1	41.1	39.4	53.2	66.3	87.0	86.3	72.2	63.9	63.2
65°	100.1	40.7	29.4	27.6	30.0	39.7	56.6	68.0	58.4	48.7	47.7
67.5°	32.5	33.1	26.9	25.2	26.6	29.7	33.8	37.6	37.3	34.2	33.5
70°	25.9	30.0	24.9	22.8	22.8	23.8	22.8	18.3	15.9	17.3	18.0
72.5°	19.3	22.8	19.7	17.6	16.9	16.6	14.2	10.4	7.3	6.6	6.2
75°	11.4	12.8	12.1	10.4	9.7	8.6	6.9	4.5	2.4	1.7	1.0
77.5°	2.1	2.4	2.8	2.1	1.7	1.4	1.0	0.3	0.0	0.0	0.0
80°	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

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)