

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: P631063

Luminaire Tested: GWS-SA1E-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
TYPE II 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: 3575.6 lumens
Efficiency: N/A
Efficacy: 61.2 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): 58.4
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



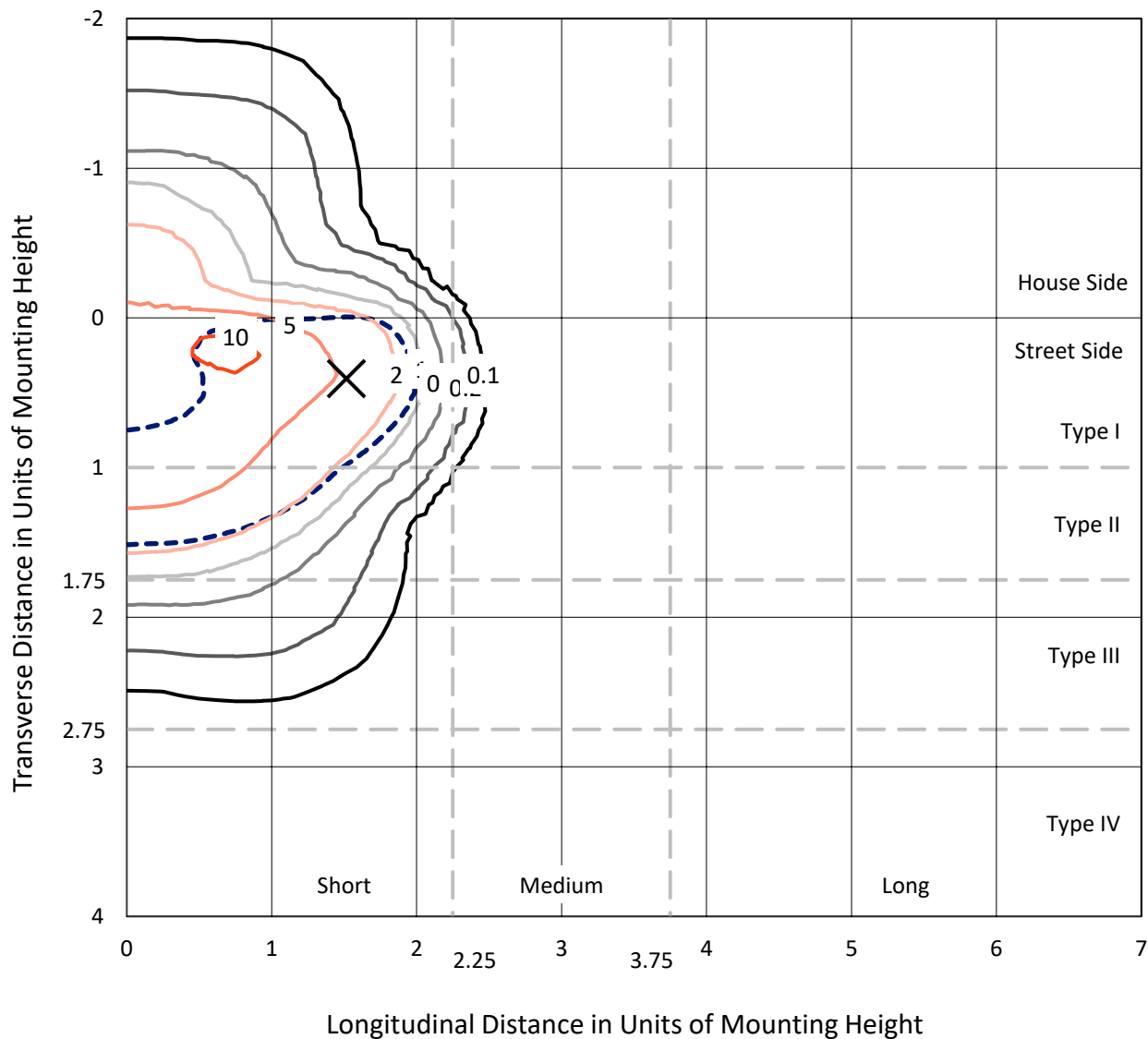
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

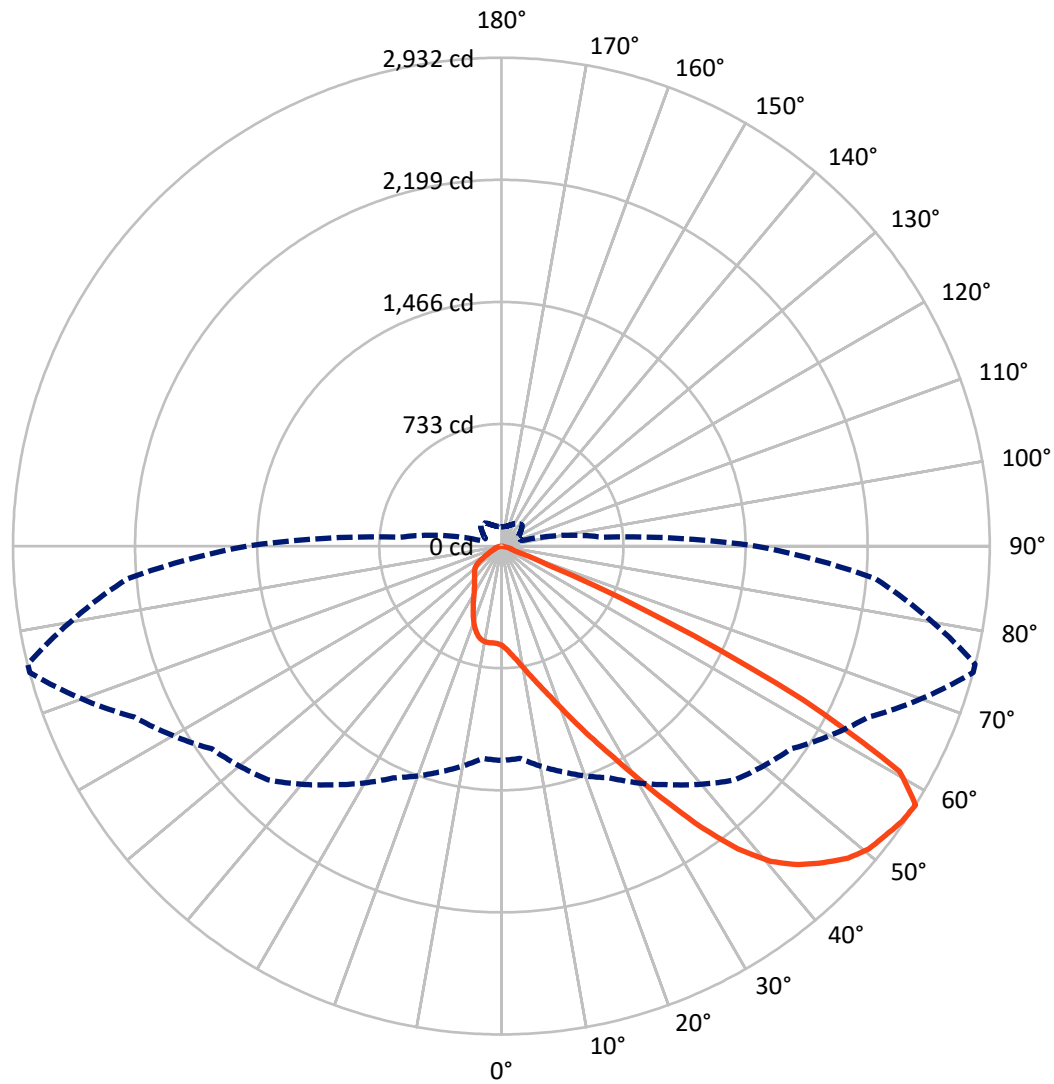


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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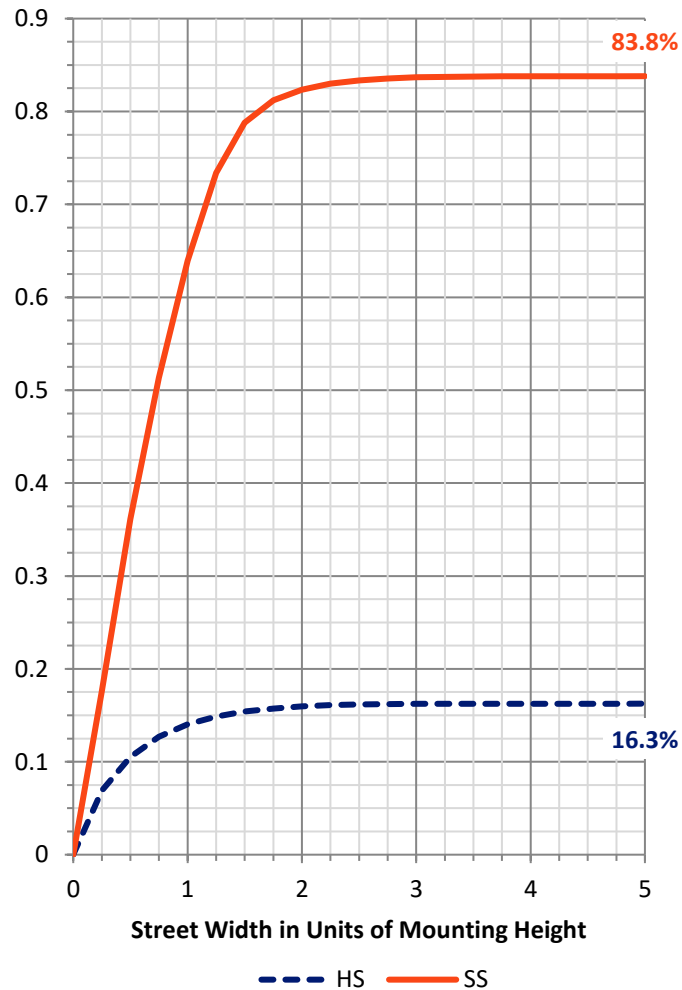
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.1	0.0	584.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	2991.5	0.0	2991.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	3575.6	0.0	3575.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.7
10°-20°	197.1	5.5
20°-30°	361.0	10.1
30°-40°	598.9	16.8
40°-50°	914.7	25.6
50°-60°	1027.8	28.7
60°-70°	379.1	10.6
70°-80°	36.2	1.0
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°	3575.6	100.0
0°-180°	3575.6	100.0

Coefficient of Utilization



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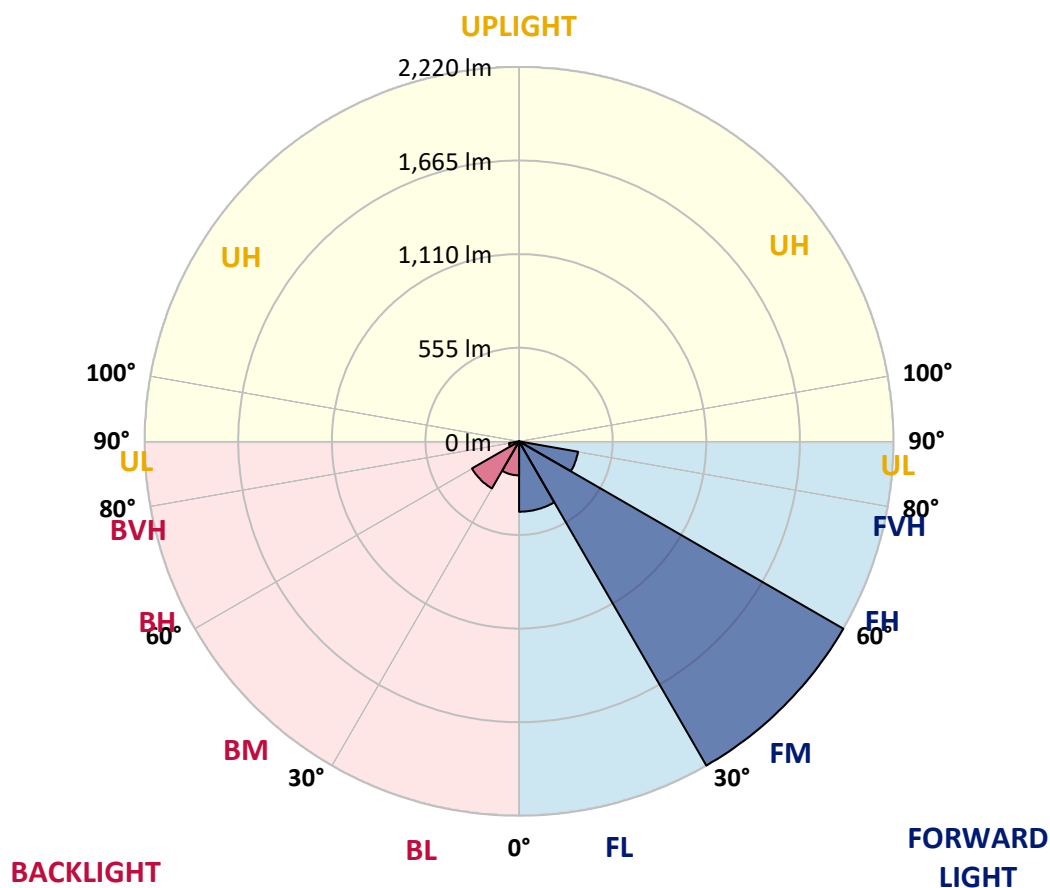
CATALOG NUMBER: GWS-SA1E-830-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.3	11.7			
FM	(30°-60°)	2219.6	62.1			
FH	(60°-80°)	354.7	9.9			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	201.5	5.6	B1/500		
BM	(30°-60°)	321.9	9.0	B1/1000		
BH	(60°-80°)	60.6	1.7	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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CATALOG NUMBER: GWS-SA1E-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4
2.5°	666.3	673.2	671.0	666.7	664.1	655.0	649.4	633.0	621.4	620.1	609.3
5°	750.4	749.1	747.4	742.2	737.9	723.7	706.8	679.2	654.6	651.6	628.7
7.5°	796.6	797.4	798.3	797.4	794.4	783.6	765.1	732.7	695.2	692.6	656.3
10°	815.6	817.3	821.6	829.8	837.1	836.3	825.5	792.3	746.1	741.8	693.0
12.5°	824.6	826.8	833.7	849.2	869.1	884.6	886.3	856.6	805.6	798.7	736.6
15°	837.1	839.3	847.9	868.2	897.1	927.8	947.6	928.6	871.7	864.3	784.5
17.5°	842.8	845.8	858.3	885.0	922.6	969.6	1014.5	1012.8	949.8	944.2	840.2
20°	853.5	855.7	866.9	895.8	941.1	1008.9	1084.4	1111.6	1045.1	1036.9	907.5
22.5°	887.6	888.5	893.7	911.8	954.1	1037.4	1155.6	1226.8	1157.8	1147.0	983.0
25°	943.3	942.9	945.0	948.0	979.1	1066.3	1224.2	1356.7	1286.8	1275.1	1068.4
27.5°	1014.1	1014.1	1019.2	1010.6	1023.1	1102.1	1292.0	1506.0	1437.0	1420.6	1162.1
30°	1097.4	1096.9	1109.0	1095.2	1099.1	1158.6	1364.9	1668.7	1618.2	1597.9	1270.0
32.5°	1210.4	1207.8	1221.6	1202.6	1189.7	1244.1	1453.8	1838.7	1835.3	1804.2	1405.5
35°	1353.2	1348.9	1353.2	1334.7	1311.4	1363.6	1570.3	2008.3	2076.0	2043.2	1566.8
37.5°	1495.2	1509.0	1513.8	1481.8	1462.9	1515.1	1710.5	2160.2	2306.0	2272.0	1734.7
40°	1662.6	1658.3	1674.7	1638.9	1626.8	1684.7	1847.8	2273.2	2488.1	2455.8	1884.0
42.5°	1786.1	1793.8	1814.1	1794.3	1784.8	1839.1	1963.0	2339.3	2614.6	2582.6	1990.6
45°	1934.1	1939.7	1947.4	1931.1	1921.1	1974.6	2046.3	2368.2	2710.8	2676.3	2062.2
47.5°	2094.2	2098.5	2098.5	2064.8	2032.9	2054.9	2101.9	2384.6	2799.3	2766.0	2115.3
50°	2208.9	2211.1	2230.1	2206.4	2136.9	2102.8	2127.4	2400.5	2858.0	2826.9	2132.6
52.5°	2107.1	2104.5	2167.1	2216.3	2234.8	2167.1	2171.4	2423.8	2886.4	2859.7	2146.4
55°	1774.4	1770.1	1858.1	1977.7	2141.2	2227.9	2224.5	2437.7	2917.9	2901.5	2196.4
57.5°	1286.4	1279.0	1401.6	1534.5	1748.9	1984.1	2122.2	2429.9	2931.7	2930.5	2254.7
60°	773.3	767.2	882.9	1022.7	1188.4	1424.9	1654.0	2176.6	2747.1	2749.6	2103.2
62.5°	476.0	481.6	586.0	657.2	718.9	790.1	922.6	1464.1	2035.0	2051.9	1478.0
65°	320.2	324.5	421.2	510.9	510.9	417.7	358.6	699.9	1085.7	1057.2	699.1
67.5°	214.9	219.6	296.0	400.9	416.0	291.3	145.4	208.9	302.5	293.4	173.0
70°	126.4	131.6	197.2	274.9	302.9	202.8	97.1	88.5	85.9	83.3	67.3
72.5°	56.5	58.7	100.5	139.8	127.7	85.4	68.6	70.8	66.9	65.6	54.8
75°	17.3	18.1	25.9	30.2	30.6	30.6	41.4	55.7	52.6	53.1	42.3
77.5°	4.3	4.3	6.9	6.5	3.5	3.0	7.8	12.5	12.9	11.7	8.6
80°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
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

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CATALOG NUMBER: GWS-SA1E-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4
2.5°	604.6	593.3	586.0	575.6	568.3	560.5	553.6	548.0	545.0	544.1	544.6
5°	618.4	600.7	583.4	563.6	549.8	536.8	526.5	518.3	514.4	513.1	513.1
7.5°	639.5	614.9	584.3	553.2	529.9	509.6	497.5	488.5	485.0	484.2	481.6
10°	667.1	633.5	583.0	534.7	501.9	480.7	472.1	469.5	470.8	471.2	470.8
12.5°	700.4	652.9	574.8	507.5	472.1	459.1	460.0	466.9	474.7	478.6	479.4
15°	735.7	670.6	556.2	475.1	446.6	446.2	458.7	474.7	489.8	496.2	498.0
17.5°	775.4	684.8	527.7	440.6	424.6	437.1	459.6	484.2	504.4	515.2	517.4
20°	819.0	696.5	491.5	408.2	405.2	427.6	458.7	488.9	513.9	526.0	528.2
22.5°	864.3	704.7	449.6	378.4	387.5	416.8	450.5	479.8	503.6	517.4	519.1
25°	916.1	705.5	406.9	353.4	371.1	402.2	430.7	454.8	474.7	486.8	488.0
27.5°	961.4	695.2	368.9	333.1	356.0	384.1	403.0	416.4	430.2	437.1	437.6
30°	1013.6	677.1	333.1	316.7	340.5	361.6	371.1	374.1	375.4	376.7	375.0
32.5°	1075.8	655.0	306.4	300.8	322.8	337.0	339.6	333.6	326.2	315.9	313.3
35°	1152.2	635.2	284.4	285.2	303.4	312.0	309.8	296.9	282.6	270.1	268.0
37.5°	1235.0	618.4	267.5	270.1	282.2	288.3	281.8	267.5	261.1	250.3	250.7
40°	1308.4	604.6	252.4	255.0	260.6	266.2	255.9	246.4	258.5	257.6	258.5
42.5°	1360.6	592.9	239.5	238.2	242.1	246.0	238.2	233.5	253.7	248.1	251.1
45°	1391.2	582.1	228.7	220.9	227.0	233.9	228.7	222.7	229.6	203.7	201.5
47.5°	1411.9	576.1	219.2	204.1	214.9	227.0	216.2	201.5	191.6	169.2	167.4
50°	1414.1	573.1	208.0	186.8	200.7	213.6	201.1	180.8	166.6	156.6	155.3
52.5°	1425.3	579.1	192.5	164.8	179.9	200.7	192.0	171.7	152.3	143.7	142.0
55°	1475.4	604.6	166.6	134.6	156.6	190.7	184.7	153.2	134.6	129.5	128.2
57.5°	1527.1	609.7	131.2	106.6	136.4	176.5	168.7	141.1	123.0	116.9	115.6
60°	1396.4	502.3	98.4	88.0	120.4	163.1	156.2	133.8	112.6	105.3	104.0
62.5°	917.4	271.4	78.1	74.7	101.4	138.1	142.4	120.8	100.5	92.8	92.3
65°	422.9	126.0	60.0	59.1	79.4	110.0	122.6	105.7	85.0	78.1	78.1
67.5°	115.2	62.6	47.0	43.6	53.9	73.8	89.3	79.0	60.4	52.2	51.8
70°	57.4	50.5	42.3	37.5	38.8	45.7	52.6	44.0	30.6	25.0	24.6
72.5°	47.0	41.4	35.8	31.9	29.3	28.0	27.2	22.0	14.2	10.8	10.4
75°	35.0	29.8	25.5	20.7	17.7	16.4	14.7	10.8	6.0	3.5	3.0
77.5°	7.8	7.3	6.9	5.2	4.7	3.9	3.0	2.2	0.9	0.0	0.0
80°	0.4	0.4	0.4	0.4	0.4	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

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
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



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 ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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 ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /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 $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_g = 7.1$



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)