

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: P630576

Luminaire Tested: GWS-SA1D-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
TYPE III 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: 2974.6 lumens
Efficiency: N/A
Efficacy: 67.1 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



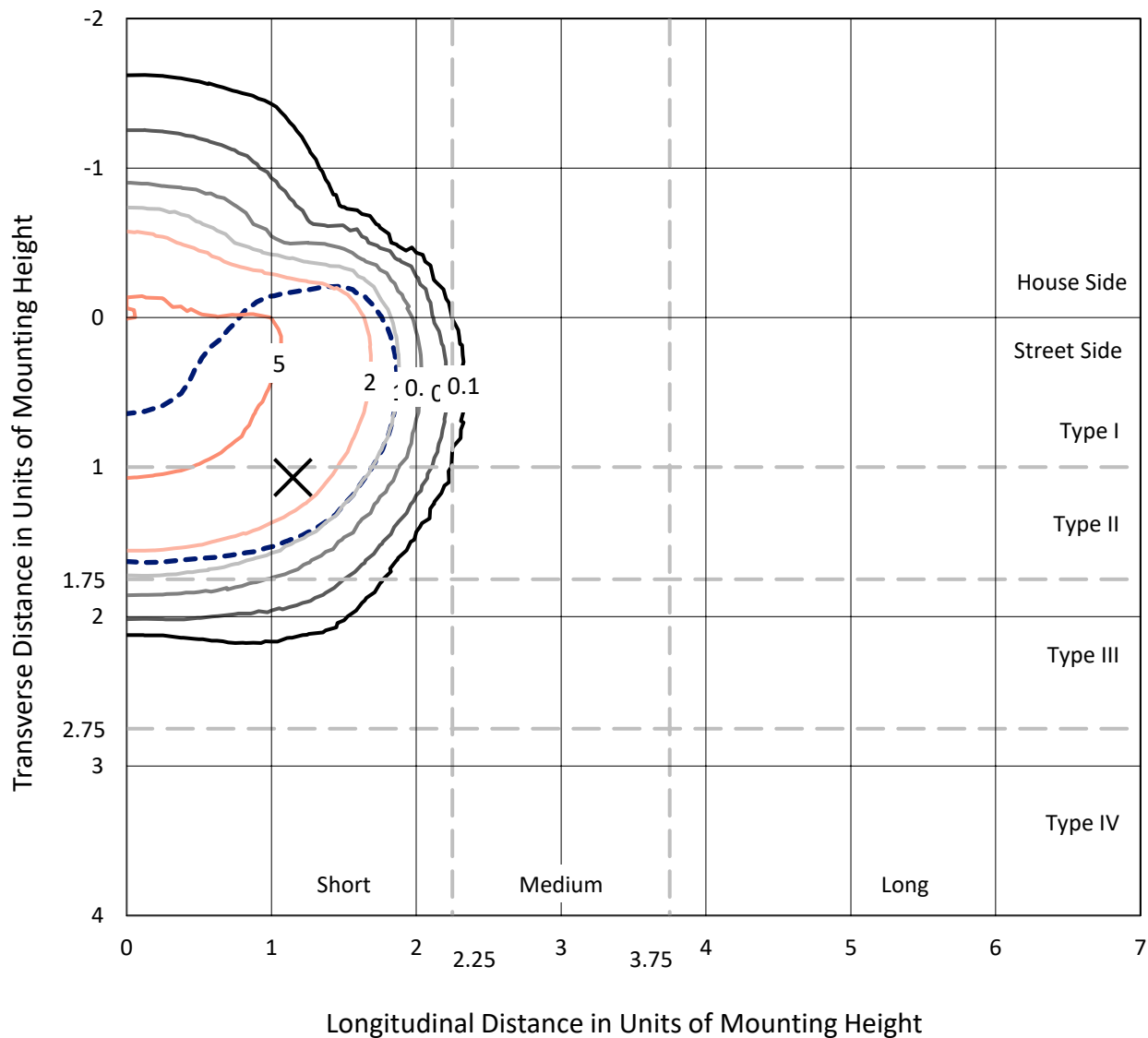
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

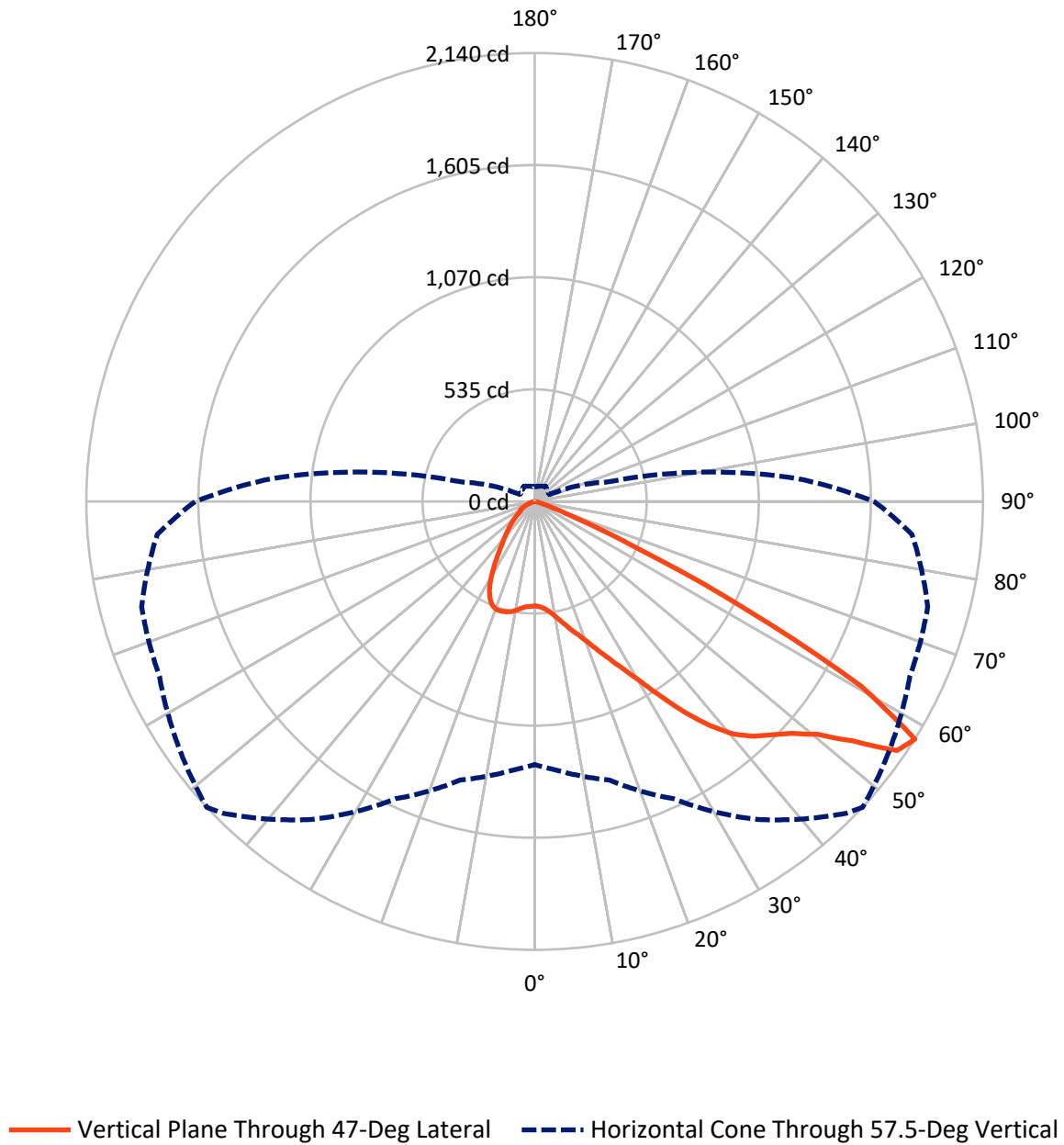


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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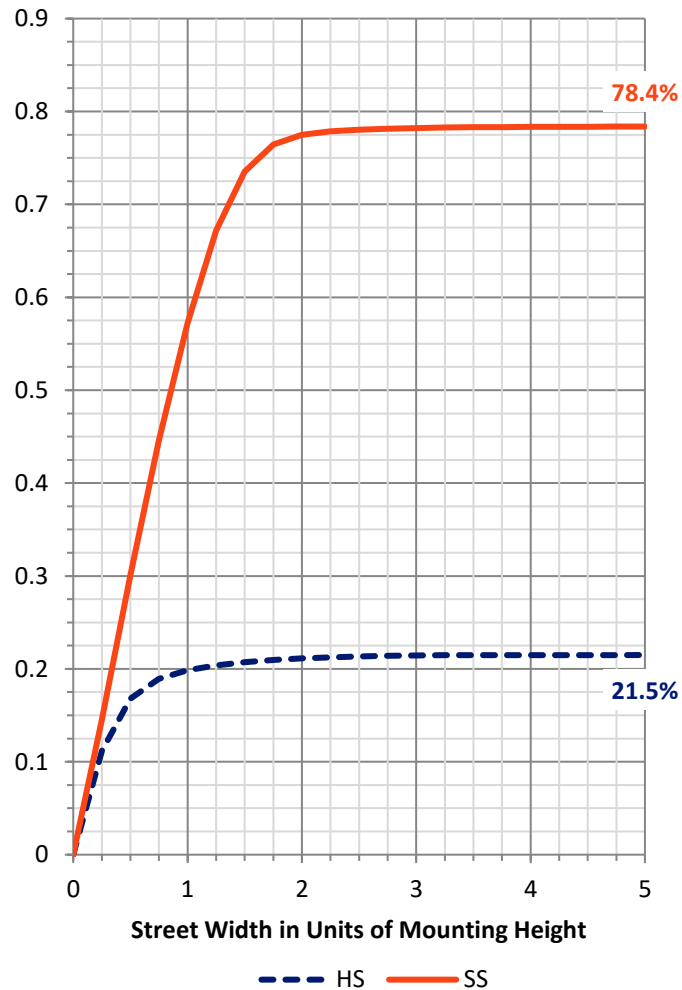
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	645.3	0.0	645.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2329.3	0.0	2329.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	2974.6	0.0	2974.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	1.7
10°-20°	167.2	5.6
20°-30°	310.4	10.4
30°-40°	496.9	16.7
40°-50°	726.3	24.4
50°-60°	896.4	30.1
60°-70°	299.5	10.1
70°-80°	27.9	0.9
80°-90°	0.6	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°	2974.6	100.0
0°-180°	2974.6	100.0

Coefficient of Utilization



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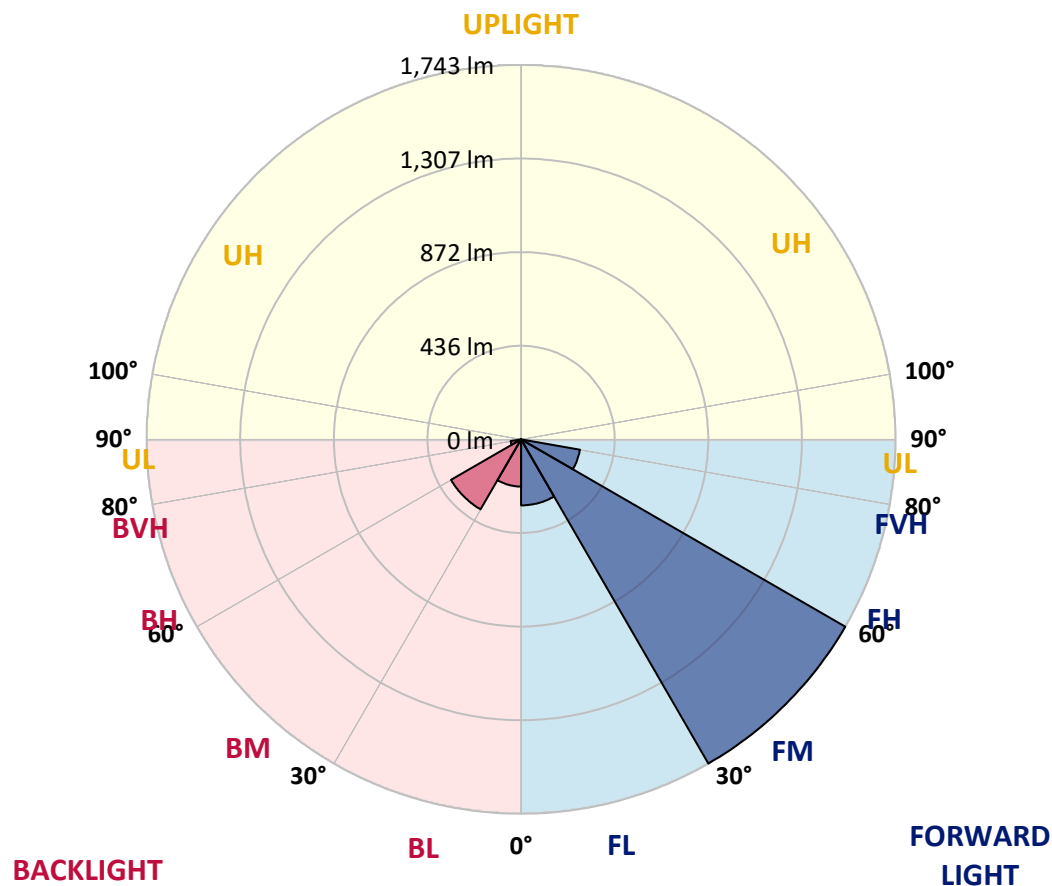
CATALOG NUMBER: GWS-SA1D-830-U-T3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.4	10.3			
FM	(30°-60°)	1743.1	58.6			
FH	(60°-80°)	278.4	9.4			G0/660
FVH	(80°-90°)	0.4	0.0			G0/10
BL	(0°-30°)	219.7	7.4	B1/500		
BM	(30°-60°)	376.4	12.7	B1/1000		
BH	(60°-80°)	49.1	1.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-SA1D-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	503.1	502.8	502.4	504.5	503.8	503.5	504.2	504.2	504.2	502.1	498.0
5°	515.2	515.2	514.9	516.9	515.2	514.2	514.5	514.5	513.1	509.3	504.2
7.5°	534.2	533.5	532.8	534.9	533.2	532.8	533.5	531.4	529.0	522.8	515.6
10°	561.5	561.5	560.5	562.5	561.1	560.5	560.5	559.1	554.6	544.9	534.2
12.5°	599.1	597.4	595.0	593.3	592.6	592.2	592.6	590.5	585.7	573.2	558.4
15°	640.2	638.8	635.0	632.3	628.5	627.8	629.9	628.1	623.3	606.4	585.3
17.5°	692.0	693.7	684.1	678.2	667.2	666.5	667.2	669.9	666.5	644.7	614.0
20°	736.2	737.6	730.4	726.2	716.2	711.7	713.1	717.6	713.8	688.2	645.4
22.5°	783.5	785.3	777.7	769.0	764.5	764.5	769.7	775.9	770.8	737.3	681.3
25°	840.2	841.5	835.3	823.9	816.0	826.0	833.6	850.2	841.5	796.0	723.8
27.5°	905.1	905.4	896.5	884.7	880.6	899.2	906.8	932.4	928.9	861.9	768.7
30°	974.5	974.8	972.8	964.8	961.0	985.5	995.9	1032.9	1030.4	943.8	829.8
32.5°	1046.7	1046.7	1050.5	1049.8	1054.3	1094.3	1110.9	1153.0	1150.6	1043.9	905.8
35°	1119.2	1119.5	1126.1	1142.7	1161.3	1214.5	1236.2	1287.4	1281.8	1163.7	1002.8
37.5°	1201.7	1198.3	1207.2	1232.1	1273.5	1335.0	1355.7	1404.4	1398.2	1286.3	1129.5
40°	1301.2	1294.9	1294.9	1324.0	1370.9	1441.7	1459.3	1483.5	1462.4	1385.4	1253.9
42.5°	1411.0	1405.1	1397.5	1423.1	1462.4	1517.7	1532.2	1525.6	1508.4	1479.0	1395.4
45°	1522.2	1513.2	1518.4	1533.9	1556.7	1582.9	1588.5	1558.1	1550.1	1558.4	1512.5
47.5°	1606.8	1600.6	1613.3	1635.1	1653.7	1657.5	1653.7	1611.6	1610.9	1640.3	1593.7
50°	1635.1	1635.8	1671.0	1718.7	1748.7	1751.8	1746.6	1698.3	1691.7	1700.4	1637.5
52.5°	1637.9	1640.6	1692.1	1782.9	1864.7	1902.0	1897.9	1845.7	1781.5	1772.2	1703.8
55°	1571.2	1587.4	1659.3	1791.9	1965.9	2085.0	2098.9	1999.1	1903.7	1895.8	1846.4
57.5°	1255.9	1289.1	1375.8	1564.6	1853.0	2104.0	2139.9	2068.1	1975.9	1942.1	1808.1
60°	750.7	791.8	875.0	1106.8	1410.3	1729.4	1791.2	1801.2	1758.7	1661.0	1387.1
62.5°	322.2	318.7	421.3	598.8	838.8	1099.2	1127.1	1170.6	1207.6	1105.4	841.9
65°	110.5	120.2	167.1	270.0	419.9	510.4	535.2	574.3	626.8	517.3	308.4
67.5°	68.4	72.5	96.3	159.5	226.5	223.1	212.0	205.8	200.3	137.1	84.6
70°	49.7	53.2	67.7	109.8	152.3	107.0	92.9	75.3	83.6	77.0	60.1
72.5°	33.5	36.3	46.6	66.6	78.0	52.1	48.3	54.9	66.3	63.2	49.0
75°	20.0	21.8	26.6	32.5	31.8	26.9	27.3	38.7	50.8	47.3	34.9
77.5°	13.8	14.5	17.6	21.1	15.5	8.3	7.6	10.7	17.3	17.3	11.7
80°	3.5	4.5	4.5	2.8	2.4	2.1	2.1	3.1	4.8	3.5	1.7
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
87.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
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-SA1D-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	500.4	496.2	499.0	498.3	500.4	501.1	498.0	497.3	497.6	493.5	492.1
5°	505.2	500.4	501.7	500.4	502.8	504.9	503.8	505.2	506.9	503.8	502.4
7.5°	515.6	510.7	510.4	508.3	511.8	513.1	512.8	516.6	520.1	518.0	515.9
10°	533.5	527.0	526.3	524.5	525.6	526.6	522.8	523.5	526.6	524.2	523.2
12.5°	555.6	547.7	546.0	541.8	541.8	536.6	528.3	526.6	529.0	527.3	525.6
15°	579.4	568.7	566.0	558.7	551.8	542.2	533.5	531.4	533.2	531.1	529.7
17.5°	606.0	594.0	585.0	572.2	557.0	545.6	535.9	531.4	528.7	524.5	524.2
20°	632.3	616.4	601.2	580.8	560.8	543.5	527.6	515.9	505.9	499.7	497.3
22.5°	662.7	639.2	614.7	586.0	557.3	531.1	503.1	483.1	465.8	460.0	457.2
25°	695.1	664.7	628.1	590.8	545.6	503.5	465.5	435.8	413.0	405.4	402.3
27.5°	731.0	689.3	641.9	589.8	521.4	464.1	413.7	376.7	354.3	347.4	349.8
30°	776.6	721.0	659.2	579.1	485.2	408.9	349.8	318.7	301.8	295.2	295.6
32.5°	837.4	766.6	684.4	556.3	438.6	346.0	294.2	271.4	260.0	251.4	250.7
35°	924.4	836.0	707.9	519.7	381.9	290.1	252.4	234.5	218.6	208.6	210.3
37.5°	1028.7	923.4	720.7	470.3	318.4	246.6	221.0	202.7	184.7	169.9	171.6
40°	1152.3	1037.7	719.6	405.4	260.4	216.9	194.8	173.4	150.9	137.4	138.8
42.5°	1290.1	1145.8	697.2	336.7	215.8	192.7	169.6	142.6	120.9	112.6	112.9
45°	1409.6	1233.5	657.8	265.6	181.6	169.2	143.3	115.7	106.0	100.1	99.8
47.5°	1498.0	1297.7	601.5	208.9	154.0	147.8	117.8	103.6	96.0	91.2	90.5
50°	1547.4	1320.2	539.4	163.7	130.2	125.4	105.3	93.9	88.7	85.6	84.9
52.5°	1613.7	1347.1	494.8	129.1	109.1	102.6	97.0	87.4	83.9	81.5	80.5
55°	1718.7	1399.2	456.2	102.6	90.8	89.4	91.5	83.6	81.5	77.7	76.3
57.5°	1619.9	1257.0	354.3	79.4	76.7	81.8	88.4	79.8	74.6	71.1	69.8
60°	1139.9	835.7	178.2	63.9	68.4	76.7	83.2	72.2	67.0	67.7	67.0
62.5°	628.5	418.2	80.1	53.5	59.4	67.7	71.1	62.5	59.0	64.9	66.0
65°	205.5	142.3	46.3	41.4	47.0	55.3	61.5	59.4	58.7	65.6	67.7
67.5°	63.2	47.0	31.4	29.7	32.5	40.7	51.8	64.2	69.1	71.1	72.2
70°	47.3	36.9	26.9	25.2	26.6	31.1	43.9	53.5	50.4	50.8	50.1
72.5°	38.0	29.4	23.1	22.1	22.1	21.4	23.1	29.0	32.8	34.5	34.5
75°	26.6	20.7	17.6	16.2	12.8	10.4	9.3	9.3	8.3	7.9	7.6
77.5°	9.0	7.6	6.9	5.5	3.8	3.1	2.8	2.4	1.7	1.0	0.7
80°	1.4	1.0	0.7	0.7	0.7	0.3	0.3	0.3	0.0	0.0	0.0
82.5°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.0	0.0	0.0	0.0
85°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	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
 Rf: 81.5
 Rg: 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 $\text{W}^\wedge/\text{nm}$	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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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 $\text{W}^\wedge/\text{nm}$	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)