

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P321776

Luminaire Tested: **GLEON-SA2D-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9703 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

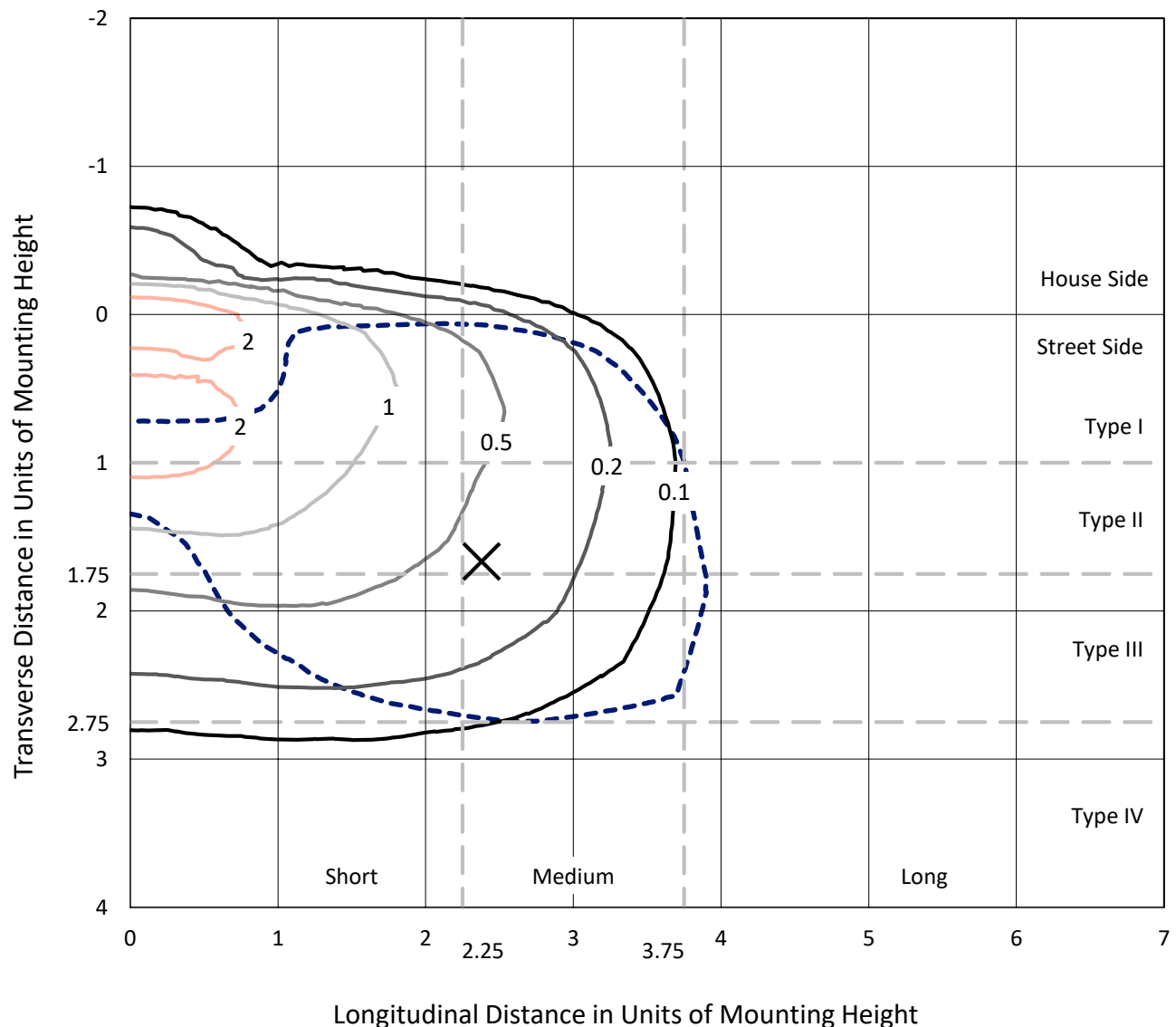
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

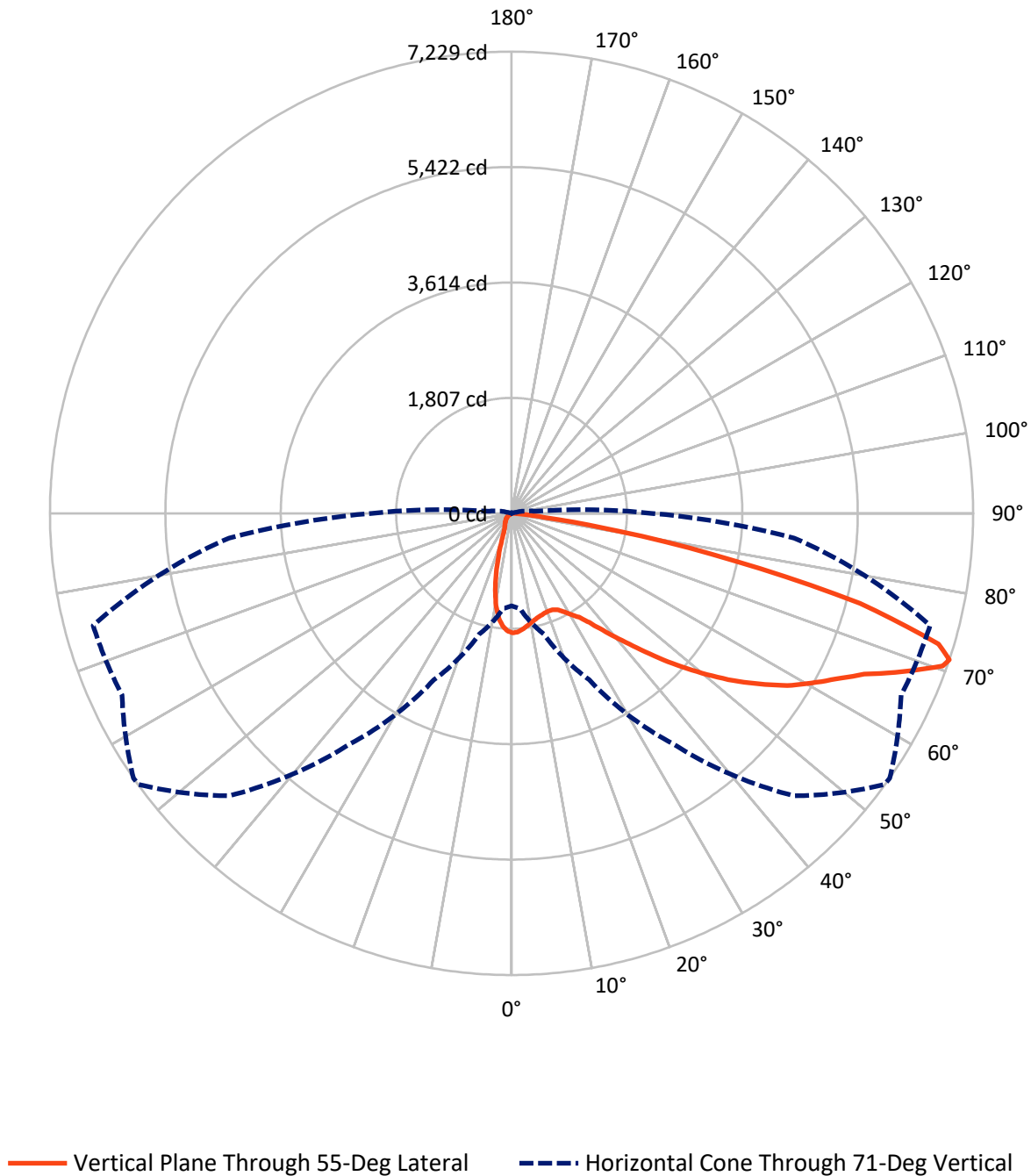
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	768.2	0.0	768.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8934.8	0.0	8934.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	9703.0	0.0	9703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.6
10°-20°	360.2	3.7
20°-30°	578.8	6.0
30°-40°	983.5	10.1
40°-50°	1526.5	15.7
50°-60°	2052.3	21.2
60°-70°	2510.7	25.9
70°-80°	1467.9	15.1
80°-90°	63.4	0.7
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°	9703.0	100.0
0°-180°	9703.0	100.0

Coefficient of Utilization



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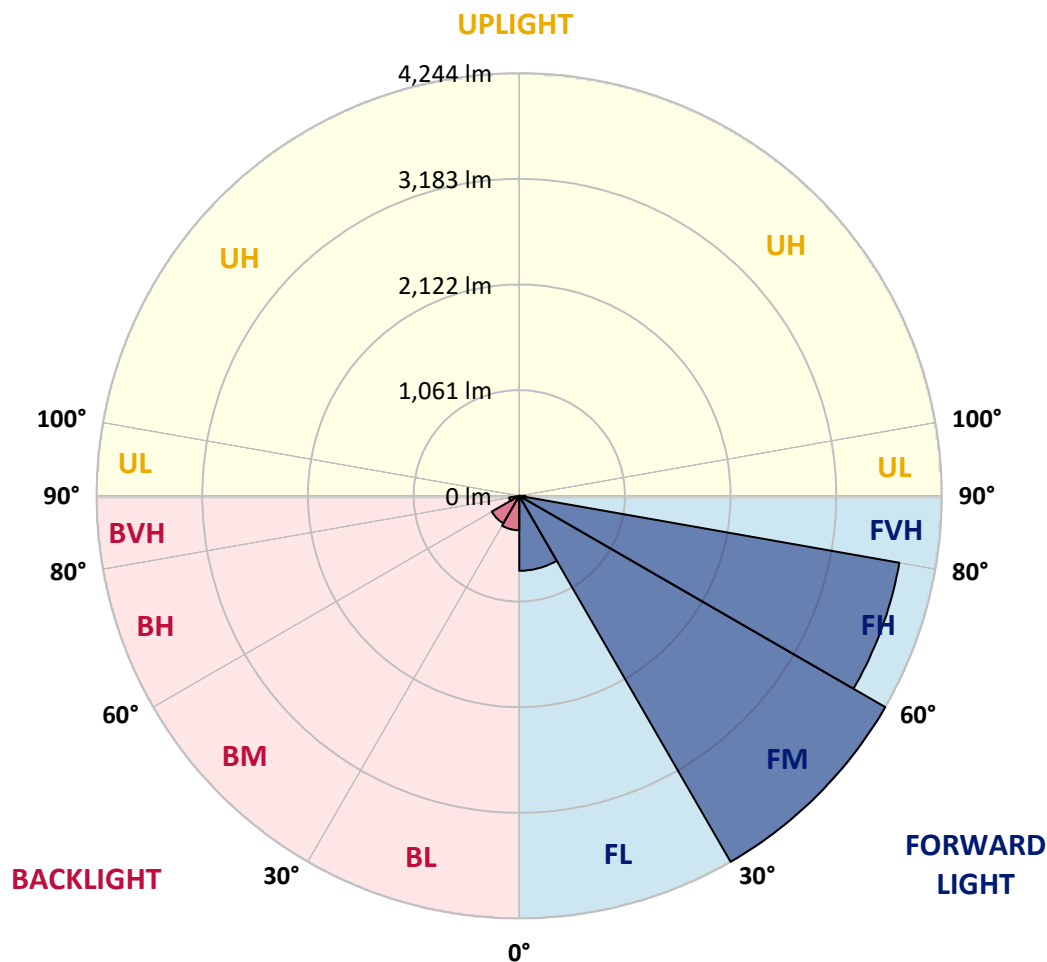
CATALOG NUMBER: GLEON-SA2D-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.8	7.8			
FM	(30°-60°)	4243.8	43.7			
FH	(60°-80°)	3875.7	39.9			G2/5000
FVH	(80°-90°)	62.4	0.6			G1/100
BL	(0°-30°)	345.8	3.6	B1/500		
BM	(30°-60°)	318.5	3.3	B1/1000		
BH	(60°-80°)	102.9	1.1	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G2

Type III Medium



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CATALOG NUMBER: GLEON-SA2D-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	1816.4	1818.5	1826.4	1829.9	1838.1	1852.1	1859.1	1859.5	1870.8	1875.2	1878.7
5°	1687.8	1700.9	1714.0	1727.9	1753.2	1786.7	1819.8	1822.9	1859.5	1886.5	1900.9
7.5°	1577.2	1588.9	1604.6	1626.8	1662.6	1715.3	1770.6	1777.2	1846.4	1907.9	1940.1
10°	1463.5	1473.0	1495.7	1528.4	1577.6	1648.2	1722.7	1733.6	1834.7	1936.6	1993.2
12.5°	1341.9	1347.6	1375.0	1422.1	1494.4	1584.1	1682.2	1696.5	1827.3	1969.7	2056.0
15°	1249.5	1252.2	1278.3	1327.1	1409.9	1526.6	1650.8	1668.2	1829.0	2009.4	2124.4
17.5°	1226.0	1227.3	1241.3	1274.8	1348.0	1475.2	1626.0	1647.3	1834.2	2048.1	2193.2
20°	1321.4	1312.3	1297.9	1292.7	1324.0	1444.3	1611.2	1635.1	1841.2	2082.6	2255.1
22.5°	1583.3	1556.3	1496.6	1416.8	1368.5	1446.5	1615.1	1639.0	1863.4	2124.8	2326.5
25°	1971.9	1934.4	1832.9	1676.1	1525.3	1509.2	1647.8	1672.2	1906.5	2175.4	2394.9
27.5°	2414.1	2377.1	2252.9	2029.0	1771.9	1633.4	1722.7	1745.3	1970.6	2220.2	2447.2
30°	2837.6	2827.1	2680.8	2426.3	2082.1	1834.7	1819.4	1838.6	2018.1	2247.3	2488.6
32.5°	3196.6	3180.1	3062.4	2814.9	2437.2	2076.5	1933.1	1938.8	2053.8	2282.1	2542.6
35°	3529.5	3509.0	3405.7	3171.8	2801.4	2371.9	2108.3	2100.0	2131.8	2352.3	2621.1
37.5°	3820.1	3838.8	3724.2	3501.6	3128.2	2679.0	2344.4	2319.6	2253.8	2466.4	2734.8
40°	4063.2	4063.2	4003.5	3817.9	3481.1	2996.6	2611.5	2578.8	2437.2	2642.4	2879.0
42.5°	4150.8	4169.5	4191.7	4086.7	3797.0	3326.9	2909.1	2875.1	2695.6	2892.1	3061.1
45°	4156.0	4185.6	4299.3	4298.9	4082.3	3654.9	3244.5	3228.4	3026.7	3212.7	3286.8
47.5°	4082.3	4119.4	4306.7	4413.0	4308.5	3960.4	3611.4	3591.3	3415.8	3605.7	3522.9
50°	3968.6	4009.6	4227.4	4457.9	4462.3	4226.1	3997.8	3967.8	3844.0	4054.9	3766.9
52.5°	3765.2	3844.5	4156.4	4468.4	4563.3	4455.7	4365.5	4352.5	4323.3	4487.5	3961.2
55°	3329.9	3417.9	3978.2	4471.9	4657.0	4659.2	4710.2	4713.7	4772.5	4891.8	4105.9
57.5°	3124.3	3174.0	3667.1	4488.4	4796.0	4890.1	5061.3	5088.3	5179.4	5275.7	4271.0
60°	2994.9	3053.7	3513.8	4465.8	5014.3	5192.9	5386.8	5395.9	5493.5	5671.7	4494.5
62.5°	2891.6	2949.6	3417.1	4378.6	5259.6	5557.1	5704.8	5705.7	5778.9	6143.6	4748.5
65°	2636.8	2685.5	3221.4	4280.6	5421.6	5917.4	6074.3	6068.6	6128.3	6641.1	5043.5
67.5°	2268.2	2305.6	2821.9	3908.9	5360.6	6245.1	6632.0	6613.2	6540.9	7071.1	5159.4
70°	1753.6	1767.1	2224.2	3257.6	4789.0	6371.0	7170.9	7161.3	6794.0	6994.0	4734.6
71°	1449.5	1494.0	1960.1	2875.1	4406.1	6254.7	7223.2	7228.9	6730.4	6784.0	4442.2
72.5°	841.7	879.6	1420.8	2208.0	3740.8	5769.3	6952.2	6993.1	6433.3	6170.6	3794.4
75°	180.4	193.0	526.7	1068.7	2057.7	4043.6	5487.4	5633.4	5243.4	4197.8	2286.9
77.5°	125.5	135.5	225.7	484.9	680.1	1998.0	3408.8	3573.5	3132.6	1577.6	731.9
80°	99.3	110.7	176.0	239.6	183.9	644.4	1596.8	1697.4	1044.8	352.0	123.3
82.5°	55.3	65.8	137.2	129.4	70.6	122.4	447.0	505.4	209.1	71.0	29.2
85°	16.1	19.6	88.4	94.1	30.1	23.5	76.2	94.5	39.6	18.7	13.1
87.5°	0.0	0.0	42.7	36.2	8.7	3.5	7.0	7.8	7.8	7.8	8.7
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: GLEON-SA2D-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	1878.7	1881.7	1870.8	1856.4	1841.2	1822.5	1802.9	1787.6	1787.2	1779.8	1772.4
5°	1901.8	1900.0	1870.0	1824.2	1770.2	1714.0	1660.4	1599.8	1579.8	1555.0	1546.7
7.5°	1944.5	1932.3	1868.6	1768.4	1649.9	1532.3	1410.7	1288.3	1236.0	1189.0	1180.7
10°	1998.0	1975.0	1860.4	1684.8	1467.4	1250.4	1067.0	900.6	827.4	771.2	768.5
12.5°	2053.8	2018.5	1837.3	1558.4	1228.2	923.2	711.9	548.1	487.1	447.9	451.4
15°	2112.2	2059.5	1787.6	1388.1	955.9	626.5	437.4	341.1	316.7	306.7	309.3
17.5°	2171.9	2087.8	1718.3	1182.9	687.1	404.3	302.8	275.8	275.8	278.0	278.8
20°	2223.7	2103.0	1616.4	952.8	465.7	294.5	264.9	261.0	263.2	266.6	267.1
22.5°	2275.1	2103.9	1483.5	719.7	325.9	257.9	252.3	250.5	251.8	255.7	256.2
25°	2317.0	2093.5	1317.1	511.9	260.1	243.1	240.5	239.6	240.5	245.3	245.3
27.5°	2334.0	2055.6	1114.0	359.9	233.1	226.6	225.7	226.6	227.9	231.3	231.8
30°	2335.7	1989.3	892.7	260.5	211.3	204.3	206.1	209.1	207.8	206.9	207.8
32.5°	2340.1	1912.6	677.1	214.4	193.0	182.1	179.9	179.9	174.7	171.7	169.9
35°	2354.4	1822.5	491.0	192.6	174.3	161.6	153.4	143.8	133.8	128.5	127.2
37.5°	2377.1	1727.9	351.6	178.2	157.7	143.3	127.7	110.7	96.3	92.4	92.4
40°	2418.5	1630.3	260.1	166.9	144.6	126.8	103.3	81.0	68.0	65.8	65.8
42.5°	2483.8	1527.5	207.4	156.8	133.3	109.8	78.9	58.8	49.2	47.9	47.5
45°	2551.8	1414.2	181.2	147.3	121.1	90.2	58.4	43.6	37.9	36.6	36.6
47.5°	2619.8	1293.5	168.6	138.1	109.4	70.1	43.6	34.4	31.8	31.8	32.2
50°	2677.3	1167.6	159.5	128.1	94.1	53.2	34.4	29.2	28.3	30.1	30.5
52.5°	2691.6	1043.9	148.1	115.5	75.4	40.5	28.3	25.7	25.7	25.7	25.7
55°	2682.9	948.0	133.3	99.8	55.8	32.2	24.4	22.7	22.2	22.2	22.2
57.5°	2712.6	891.4	106.7	77.6	40.1	26.1	21.3	20.0	19.2	18.7	18.7
60°	2772.3	854.4	76.2	55.8	30.1	21.8	18.3	17.0	15.7	14.8	14.8
62.5°	2851.5	822.1	56.6	41.4	23.1	17.4	15.2	13.9	12.2	11.3	11.3
65°	2912.5	764.6	43.1	30.9	17.4	13.9	11.8	11.3	8.7	7.8	7.4
67.5°	2819.3	638.3	34.9	22.7	13.1	10.9	9.1	8.7	5.2	4.4	4.4
70°	2418.0	444.4	27.9	16.6	9.6	8.7	7.4	5.7	3.9	3.5	3.5
71°	2192.8	371.2	25.3	13.9	8.3	8.3	7.0	4.8	3.5	3.0	3.0
72.5°	1821.6	263.6	21.3	10.9	7.4	8.7	7.4	4.4	3.5	3.0	2.6
75°	1057.4	110.2	14.8	7.4	5.7	10.5	9.6	3.9	2.6	2.2	2.2
77.5°	318.0	40.5	8.3	4.8	4.4	9.1	10.9	3.5	1.3	0.4	0.4
80°	57.9	17.4	5.2	3.0	3.0	5.7	8.3	1.7	0.0	0.0	0.0
82.5°	20.5	8.7	3.0	1.7	1.3	2.6	3.9	0.0	0.0	0.0	0.0
85°	11.8	6.1	1.7	0.9	0.0	0.4	0.9	0.0	0.0	0.0	0.0
87.5°	7.8	1.7	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 $\text{W}^\wedge/\text{nm}$	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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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

$R_f = 81.5$
 $R_g = 99.2$
 $CIE\ R_a = 81.0$
 $R_9 = 7.1$



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)