

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 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: P322707

Luminaire Tested: **GLEON-SA3A-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8029 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

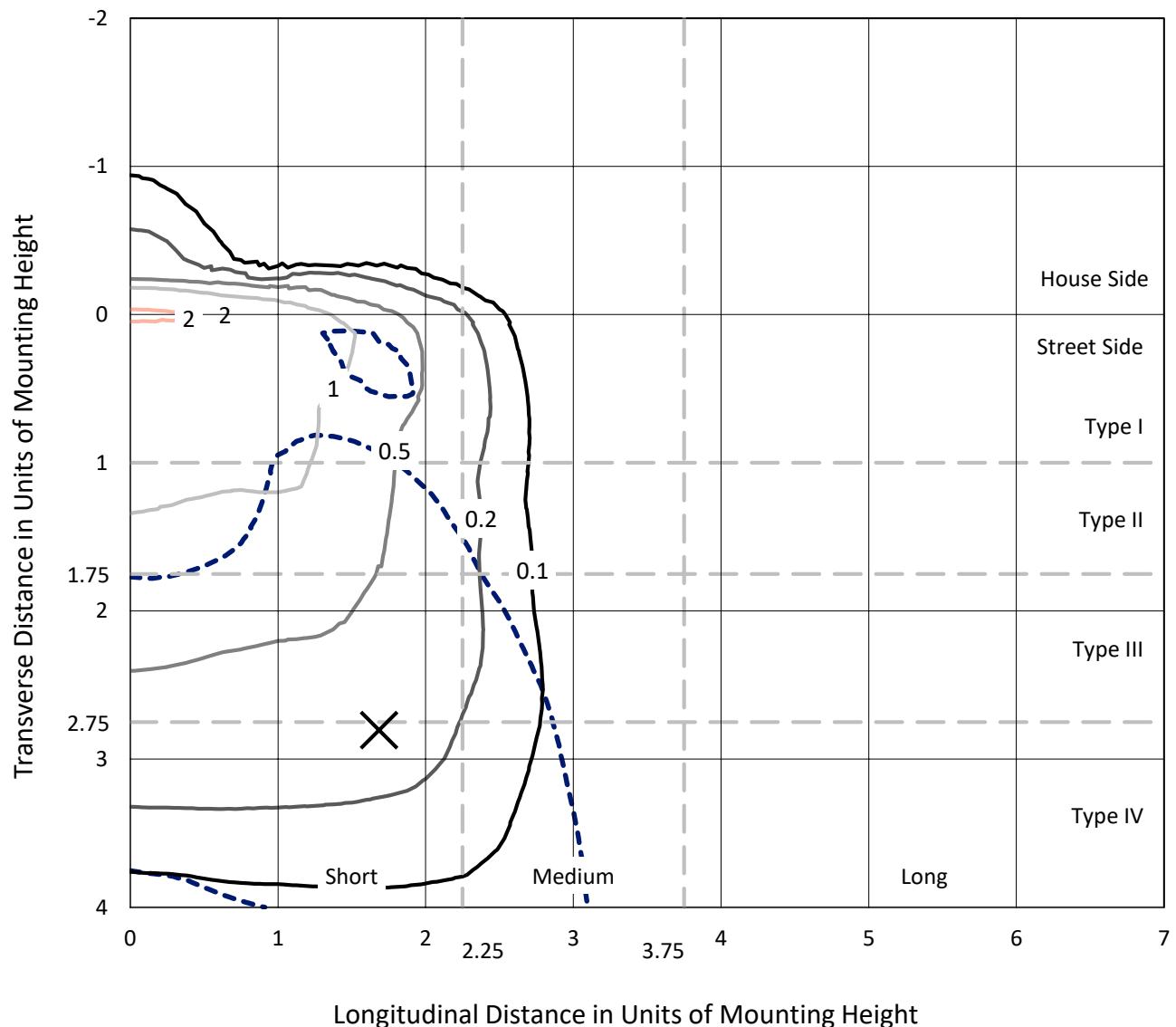
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

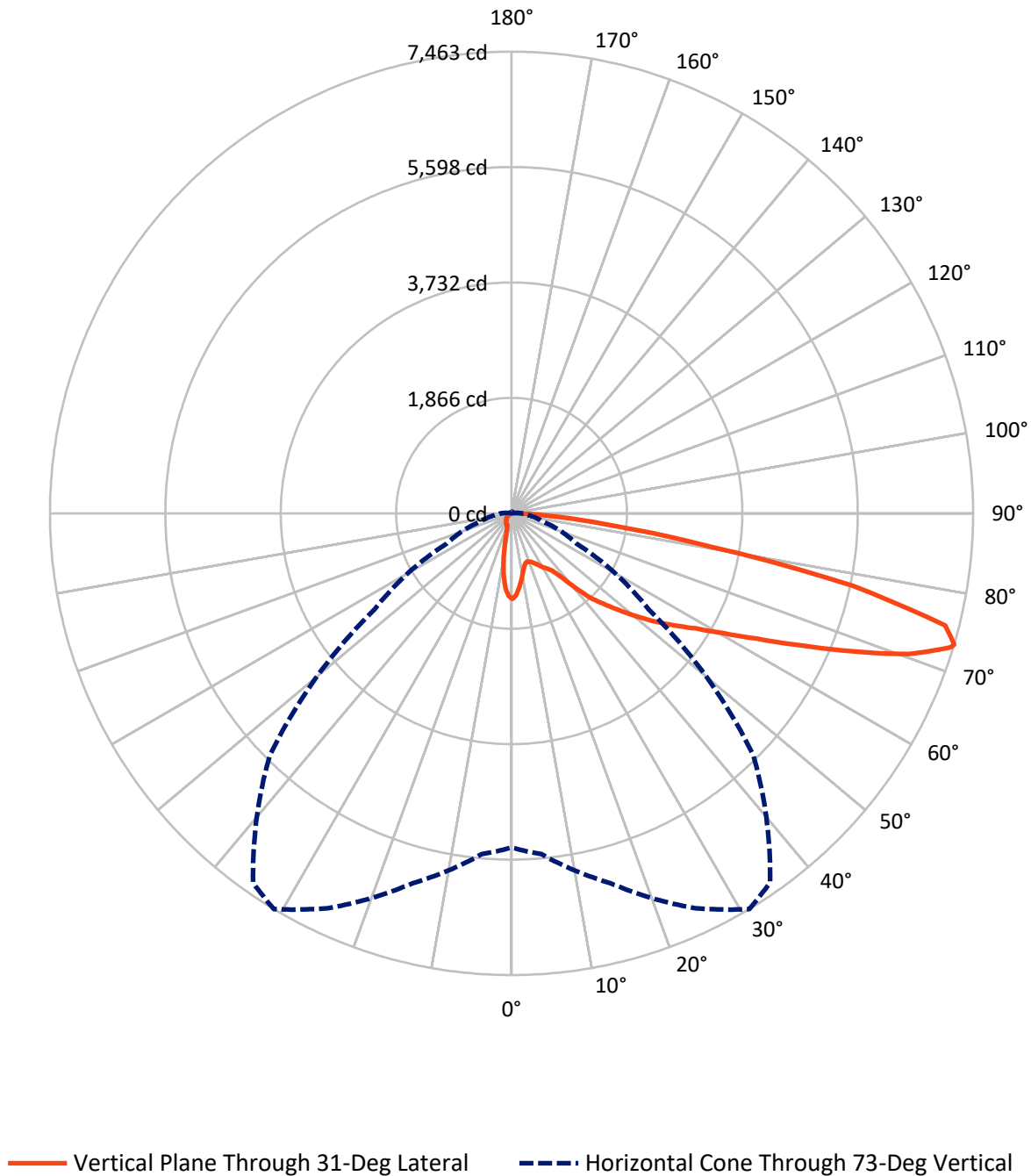
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.9	0.0	731.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	7297.1	0.0	7297.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	8029.0	0.0	8029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	1.4
10°-20°	248.7	3.1
20°-30°	372.6	4.6
30°-40°	592.8	7.4
40°-50°	1058.6	13.2
50°-60°	1642.7	20.5
60°-70°	2183.8	27.2
70°-80°	1642.6	20.5
80°-90°	172.6	2.1
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°	8029.0	100.0
0°-180°	8029.0	100.0

Coefficient of Utilization



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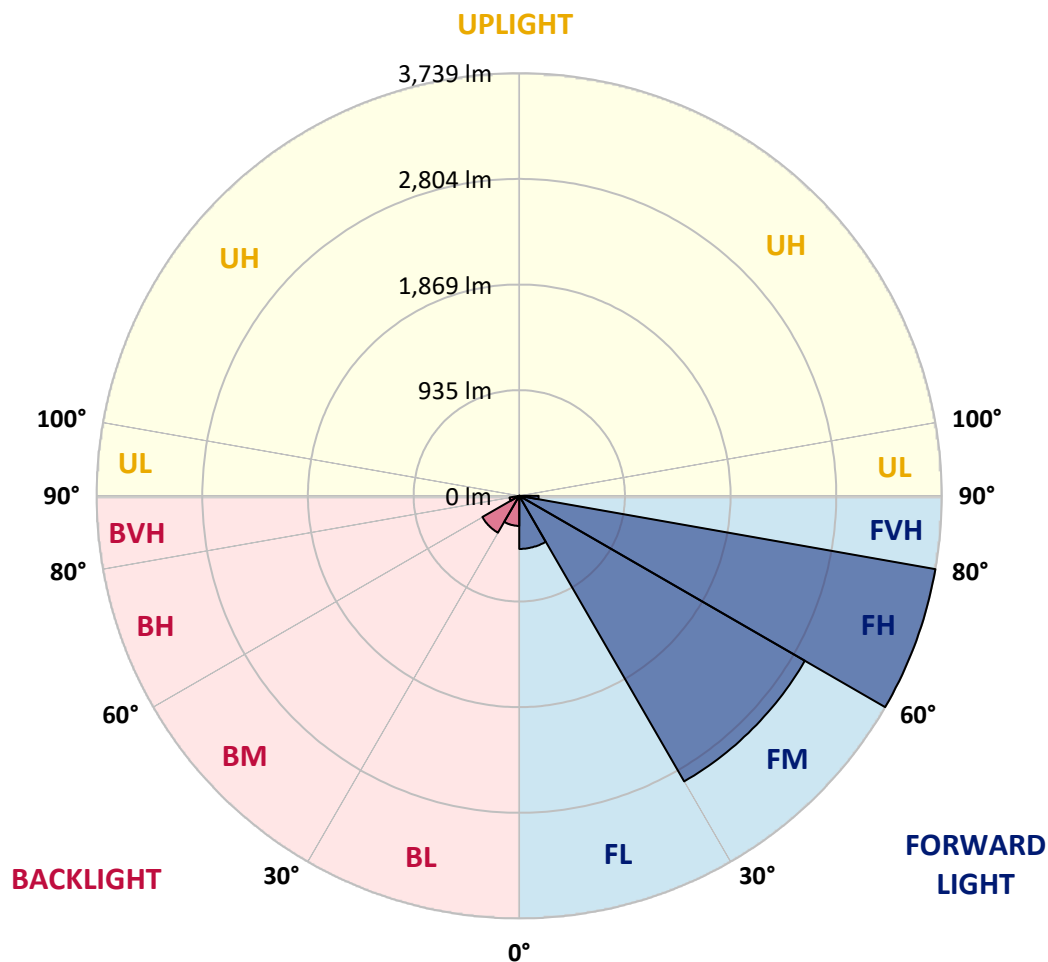
CATALOG NUMBER: GLEON-SA3A-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.7	5.9			
FM	(30°-60°)	2917.5	36.3			
FH	(60°-80°)	3738.8	46.6			G2/5000
FVH	(80°-90°)	171.2	2.1			G2/225
BL	(0°-30°)	266.1	3.3	B1/500		
BM	(30°-60°)	376.7	4.7	B1/1000		
BH	(60°-80°)	87.6	1.1	B0/110		G0/110
BVH	(80°-90°)	1.5	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 IV Short



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CATALOG NUMBER: GLEON-SA3A-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4
2.5°	1309.1	1314.6	1320.5	1321.7	1331.5	1331.9	1346.0	1356.7	1367.3	1377.5	1381.0
5°	1174.7	1183.8	1194.4	1205.0	1225.8	1234.1	1268.6	1304.0	1337.8	1370.0	1385.7
7.5°	1031.3	1041.6	1056.5	1082.8	1106.0	1122.1	1176.7	1239.6	1302.4	1361.8	1395.9
10°	900.5	909.9	925.7	953.5	989.3	1011.3	1084.8	1172.0	1264.3	1354.3	1411.3
12.5°	817.2	822.3	831.0	860.8	893.0	917.8	1004.2	1112.3	1232.9	1353.9	1436.0
15°	801.9	803.5	796.4	809.7	834.9	858.9	946.5	1063.9	1208.9	1360.2	1468.2
17.5°	826.3	825.5	801.9	800.3	820.4	840.0	918.2	1030.6	1192.0	1374.7	1509.9
20°	863.2	860.4	819.6	812.1	833.3	851.8	916.2	1018.0	1185.7	1399.1	1560.6
22.5°	912.3	907.6	843.5	835.7	858.5	877.7	940.6	1030.2	1191.2	1431.7	1619.5
25°	973.2	966.1	884.8	876.1	899.3	918.6	984.2	1065.1	1207.7	1471.4	1694.1
27.5°	1041.9	1031.7	950.8	928.4	954.7	974.8	1042.3	1118.6	1233.7	1513.4	1785.7
30°	1106.8	1093.4	1020.3	983.4	1015.6	1038.0	1105.2	1182.2	1275.3	1578.2	1911.0
32.5°	1172.0	1157.1	1082.4	1038.4	1067.5	1091.8	1170.0	1269.8	1353.5	1677.3	2077.6
35°	1322.1	1306.4	1214.8	1142.1	1141.7	1155.5	1260.8	1389.7	1456.8	1815.2	2276.4
37.5°	1574.7	1565.7	1478.5	1340.5	1303.6	1288.3	1384.5	1532.7	1605.4	2004.9	2500.8
40°	1851.3	1843.4	1745.6	1620.7	1564.5	1526.8	1562.1	1731.9	1815.2	2236.7	2729.8
42.5°	2163.7	2126.3	1951.9	1914.6	1864.3	1835.6	1803.8	1977.4	2072.9	2489.0	2956.9
45°	2447.3	2384.5	2158.2	2101.6	2090.2	2097.3	2114.9	2307.5	2362.8	2788.7	3183.2
47.5°	2616.3	2566.8	2393.1	2338.9	2335.7	2382.5	2516.1	2680.3	2651.6	3050.0	3382.4
50°	2777.0	2732.2	2588.0	2601.3	2615.9	2679.5	2971.4	3063.8	2915.3	3286.9	3565.1
52.5°	2907.0	2838.6	2763.2	2838.2	2909.8	3012.3	3441.3	3407.9	3102.3	3475.5	3721.5
55°	2982.0	2951.0	2987.5	3063.0	3197.3	3363.9	3884.9	3694.4	3239.0	3647.6	3825.6
57.5°	3257.1	3196.2	3268.9	3334.1	3509.3	3742.3	4264.8	3907.7	3337.6	3754.1	3849.5
60°	3589.8	3540.7	3583.6	3692.0	3928.5	4202.4	4620.0	4081.7	3389.1	3822.4	3787.5
62.5°	4119.5	4054.6	4027.9	4149.3	4462.9	4761.8	4889.5	4202.4	3377.7	3792.2	3574.5
65°	4829.0	4761.8	4642.4	4752.4	5151.2	5362.2	5190.9	4227.9	3299.1	3547.4	3036.3
67.5°	5555.9	5507.2	5405.0	5590.5	5950.3	6018.3	5509.5	4165.8	3046.1	2876.4	2145.2
70°	6036.0	6015.2	6081.6	6491.7	6812.7	6793.1	5801.8	3832.3	2374.2	1768.8	1061.2
72.5°	5689.9	5789.6	6280.0	7023.7	7415.8	7255.5	5651.7	2942.8	1357.0	680.5	306.8
73°	5403.0	5530.7	6190.8	7043.8	7463.4	7287.7	5525.6	2701.1	1156.7	537.1	232.6
75°	3758.8	3915.6	5125.3	6560.1	7241.0	6943.6	4605.9	1653.3	535.9	238.1	93.9
77.5°	1825.0	1940.9	2822.1	4739.8	5631.3	5425.0	2867.3	616.1	242.0	148.9	43.2
80°	681.3	757.5	1225.0	2412.4	3254.3	3339.6	1261.2	233.0	161.1	119.8	22.0
82.5°	178.4	198.8	451.8	1075.7	1667.8	1745.6	397.6	117.5	117.9	98.6	13.4
85°	57.0	65.2	141.0	482.9	785.8	689.9	103.7	57.0	85.7	73.5	7.5
87.5°	7.1	9.0	44.8	113.5	173.3	96.3	16.1	16.9	36.5	40.9	4.3
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-SA3A-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4
2.5°	1384.5	1382.6	1383.0	1372.8	1366.1	1352.7	1339.0	1332.7	1326.0	1323.3	1326.0
5°	1391.6	1388.1	1377.9	1346.4	1313.0	1269.8	1229.4	1198.7	1160.2	1149.6	1160.6
7.5°	1402.6	1395.5	1365.7	1301.6	1227.4	1144.9	1052.2	984.6	929.2	893.4	906.4
10°	1418.7	1405.4	1345.3	1236.4	1103.6	957.5	825.9	723.3	650.6	620.8	619.6
12.5°	1445.8	1420.7	1320.1	1151.6	952.4	757.5	585.0	473.8	414.9	376.8	376.0
15°	1475.7	1438.8	1288.3	1049.8	776.4	542.6	376.8	292.3	254.2	242.0	240.4
17.5°	1512.2	1459.6	1247.0	924.5	592.1	359.5	245.9	221.6	220.0	218.8	218.8
20°	1558.2	1484.3	1194.0	781.1	420.0	240.1	209.0	210.6	211.4	209.8	210.2
22.5°	1611.6	1509.5	1130.7	627.1	284.1	200.8	200.0	201.9	202.7	201.9	202.3
25°	1673.7	1538.6	1053.7	465.6	205.1	190.6	192.5	195.3	197.2	197.2	197.2
27.5°	1750.7	1573.9	961.0	324.9	177.2	179.9	185.4	190.6	193.3	194.1	194.1
30°	1850.9	1617.9	849.8	222.8	161.1	165.8	176.0	185.8	190.9	191.7	192.1
32.5°	1977.4	1667.4	721.0	164.6	147.3	150.9	161.9	178.4	188.2	189.8	189.8
35°	2122.4	1724.8	582.3	143.4	137.5	138.7	147.3	166.2	183.5	187.8	188.2
37.5°	2281.1	1781.4	442.8	134.0	129.3	129.3	135.5	151.7	172.1	185.4	187.0
40°	2429.2	1815.6	310.4	126.5	121.8	121.8	127.3	139.1	158.3	178.4	182.7
42.5°	2566.0	1827.3	216.1	119.4	114.7	115.9	120.6	130.0	144.6	164.6	168.6
45°	2706.6	1825.4	157.5	111.2	107.7	111.2	114.7	121.8	132.4	143.8	144.6
47.5°	2812.7	1808.9	124.9	103.3	101.0	105.7	108.8	113.5	119.4	118.7	118.7
50°	2912.1	1768.8	100.6	92.7	94.3	99.8	101.4	102.9	103.3	95.9	95.1
52.5°	2987.5	1706.3	80.5	81.3	87.6	93.1	91.5	89.2	85.3	76.2	74.6
55°	3012.7	1586.1	63.3	67.2	77.8	84.9	79.0	73.9	66.4	58.9	57.4
57.5°	2967.1	1430.9	51.5	52.3	65.6	71.5	64.8	58.9	50.7	44.4	43.2
60°	2870.5	1258.4	42.4	39.3	50.7	55.8	51.5	45.6	38.1	33.4	33.0
62.5°	2678.7	1074.6	35.0	30.6	38.5	42.8	40.1	35.8	29.5	26.3	25.9
65°	2275.6	859.6	28.3	24.8	29.9	33.4	31.0	27.9	23.2	20.8	20.4
67.5°	1588.5	581.1	23.2	20.4	23.6	26.3	24.4	22.8	18.5	18.1	18.5
70°	766.1	280.1	19.3	16.5	18.5	20.4	19.6	18.5	17.7	20.4	23.6
72.5°	219.6	93.9	15.3	13.8	14.9	16.1	16.9	16.5	19.3	24.8	28.7
73°	168.9	75.8	14.5	13.0	14.1	15.7	16.5	16.1	19.6	25.1	28.7
75°	72.3	36.5	11.0	10.6	11.8	13.8	14.5	14.5	19.6	25.5	27.5
77.5°	32.6	19.6	7.1	8.3	10.2	11.0	12.2	12.2	15.7	19.6	19.6
80°	18.5	10.6	5.5	6.3	7.5	7.5	7.5	6.7	7.1	7.9	8.6
82.5°	11.8	7.1	4.3	5.1	4.7	3.9	3.1	3.1	2.8	3.1	3.9
85°	6.7	3.9	3.9	3.1	2.0	1.6	2.0	1.6	0.4	0.0	0.4
87.5°	3.9	2.4	1.2	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

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



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)