

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: P321435

Luminaire Tested: **GLEON-SA1B-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

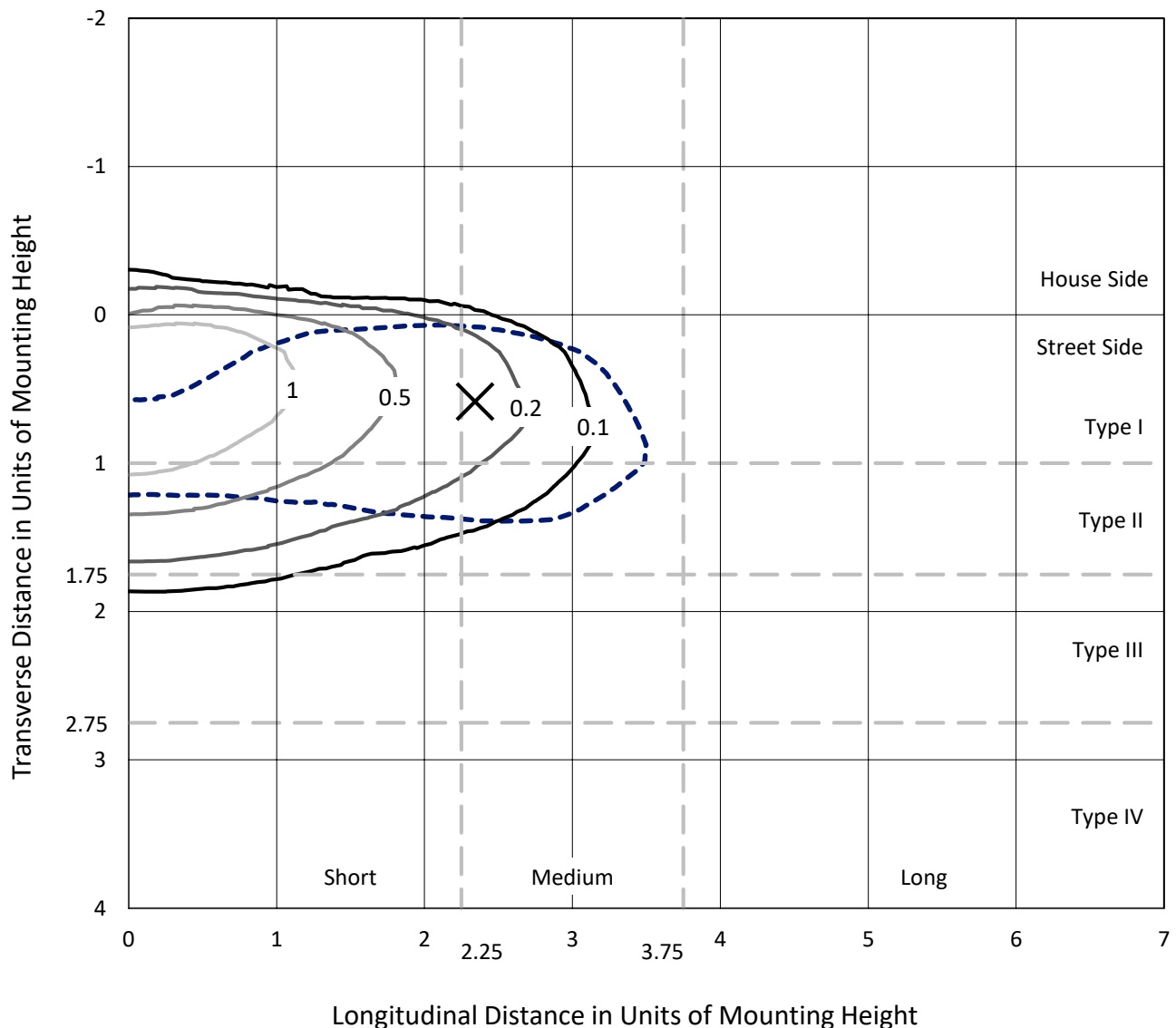
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

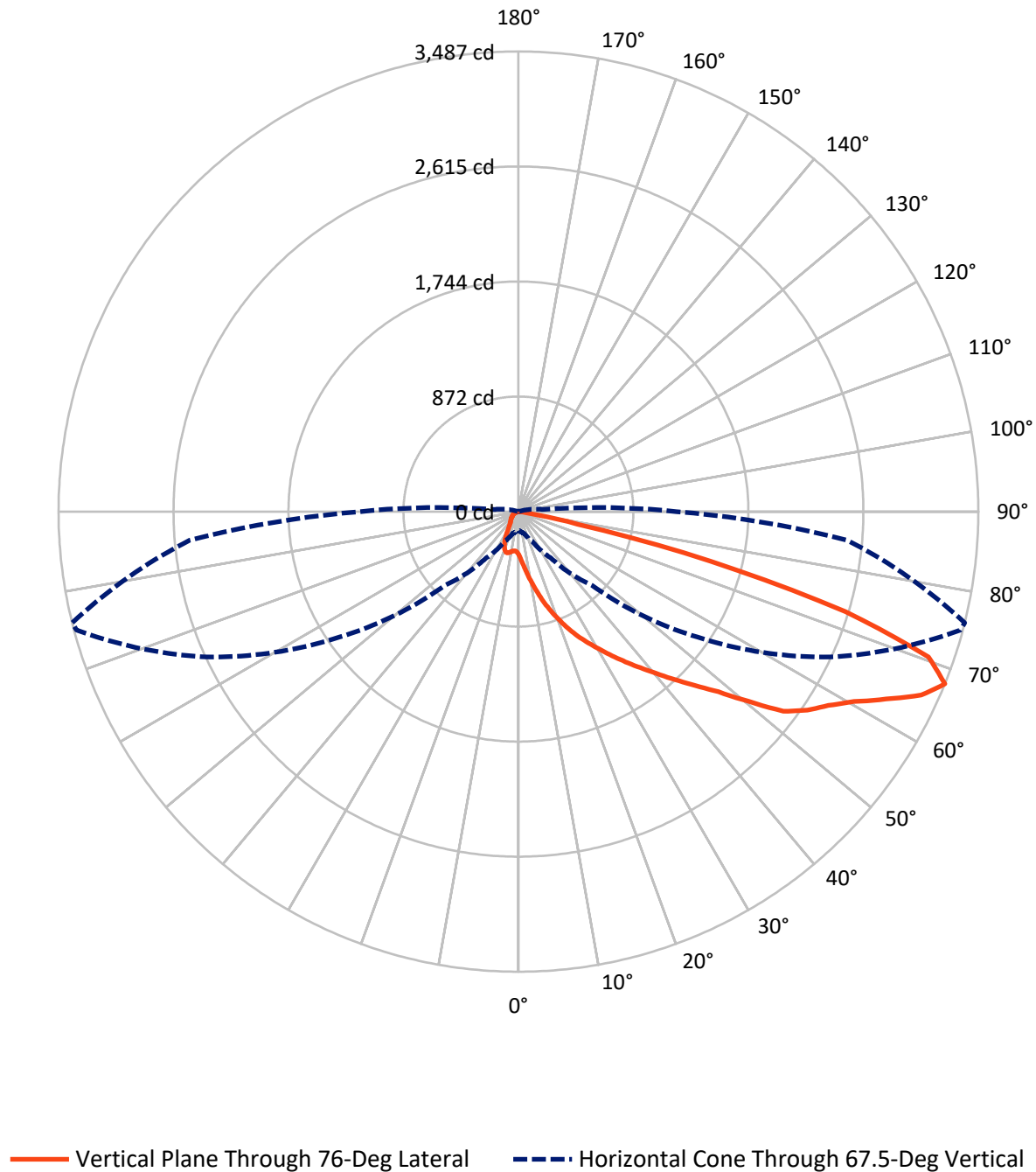
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	190.6	0.0	190.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3647.4	0.0	3647.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	3838.0	0.0	3838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	1.1
10°-20°	160.5	4.2
20°-30°	326.5	8.5
30°-40°	566.8	14.8
40°-50°	800.8	20.9
50°-60°	908.1	23.7
60°-70°	753.2	19.6
70°-80°	272.8	7.1
80°-90°	8.8	0.2
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°	3838.0	100.0
0°-180°	3838.0	100.0

Coefficient of Utilization



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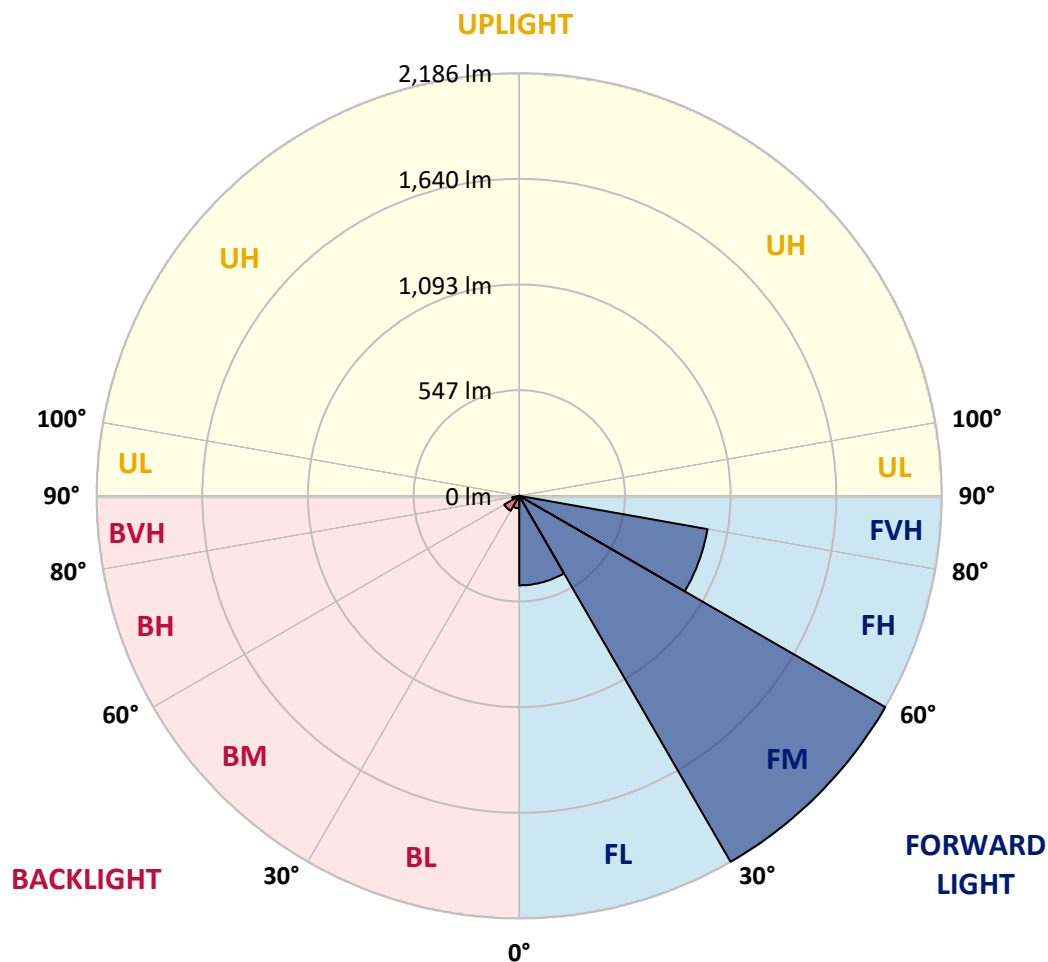
CATALOG NUMBER: GLEON-SA1B-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	463.2	12.1			
FM	(30°-60°)	2186.4	57.0			
FH	(60°-80°)	989.2	25.8			G1/1800
FVH	(80°-90°)	8.6	0.2			G0/10
BL	(0°-30°)	64.3	1.7	B0/110		
BM	(30°-60°)	89.2	2.3	B0/220		
BH	(60°-80°)	36.8	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CATALOG NUMBER: GLEON-SA1B-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6
2.5°	486.0	475.1	477.6	470.5	457.8	431.5	409.2	388.0	363.2	362.4	342.1
5°	655.4	646.1	644.9	630.6	607.4	562.9	519.5	470.0	414.9	410.8	367.6
7.5°	809.1	801.7	799.0	782.0	738.8	695.4	638.9	566.2	480.0	472.6	402.1
10°	927.1	923.6	924.3	912.1	875.1	834.8	760.6	668.0	553.8	542.3	443.5
12.5°	1016.6	1017.4	1023.5	1016.1	995.4	965.5	886.2	776.4	635.5	619.9	490.7
15°	1082.3	1086.5	1097.6	1106.9	1105.4	1079.5	1006.8	886.6	722.3	705.0	543.4
17.5°	1124.9	1129.6	1145.7	1166.2	1185.1	1179.0	1123.2	992.9	810.1	790.1	599.7
20°	1162.2	1167.8	1185.1	1212.2	1247.3	1254.9	1218.2	1096.0	897.7	873.3	657.9
22.5°	1243.1	1242.9	1253.5	1269.3	1302.8	1322.3	1299.1	1191.6	984.3	958.9	717.2
25°	1389.4	1383.9	1380.2	1367.7	1375.1	1387.2	1374.3	1281.1	1071.4	1045.7	777.4
27.5°	1563.3	1566.7	1536.7	1503.3	1477.4	1464.9	1443.7	1364.0	1155.1	1126.9	836.3
30°	1746.8	1747.8	1712.5	1669.7	1612.7	1565.5	1528.8	1443.2	1241.2	1210.5	893.5
32.5°	1912.2	1905.7	1870.7	1812.5	1740.5	1687.4	1611.2	1531.7	1332.4	1302.6	957.0
35°	2043.4	2035.7	1993.1	1940.2	1865.5	1812.0	1720.4	1620.0	1428.3	1399.2	1020.8
37.5°	2139.3	2130.2	2086.5	2032.0	1967.6	1936.5	1847.0	1716.0	1532.9	1501.6	1087.9
40°	2172.6	2164.7	2137.2	2097.4	2045.6	2038.5	1981.4	1826.5	1646.7	1613.4	1163.9
42.5°	2152.7	2145.0	2135.2	2121.8	2100.3	2107.0	2108.2	1952.4	1773.2	1740.4	1247.8
45°	2074.0	2067.1	2077.2	2096.9	2123.6	2156.9	2223.9	2087.8	1914.4	1879.4	1344.8
47.5°	1958.2	1953.1	1981.0	2030.1	2108.3	2200.1	2329.6	2230.1	2073.0	2040.6	1465.9
50°	1793.3	1792.5	1848.3	1938.0	2058.2	2221.0	2438.9	2391.9	2293.3	2259.2	1634.3
52.5°	1536.7	1538.4	1648.2	1791.7	1970.3	2206.9	2509.2	2599.7	2549.6	2514.1	1780.1
55°	1292.4	1302.5	1380.3	1587.2	1835.4	2154.4	2533.5	2696.7	2691.0	2657.4	1861.1
57.5°	1053.1	1071.4	1146.4	1339.6	1638.5	2033.5	2520.2	2738.8	2796.3	2770.6	1968.1
60°	793.8	802.2	888.6	1069.2	1385.7	1812.9	2423.8	2761.7	2940.3	2922.4	2123.3
62.5°	505.0	526.0	602.7	776.9	1079.0	1506.5	2261.4	2761.3	3120.4	3130.1	2323.6
65°	266.0	290.6	331.3	481.5	741.5	1164.2	2017.0	2735.4	3341.3	3355.0	2480.1
67.5°	143.4	150.5	172.0	249.9	430.0	788.7	1658.0	2607.6	3469.3	3487.3	2502.0
70°	104.9	108.8	116.9	138.2	216.4	458.1	1209.8	2317.9	3304.3	3297.6	2223.0
72.5°	80.6	86.6	92.7	101.2	124.4	244.5	753.2	1815.0	2636.5	2592.1	1661.7
75°	63.6	64.6	73.2	80.9	93.3	139.2	334.5	1057.1	1609.2	1504.1	861.7
77.5°	50.8	51.5	56.5	63.2	75.0	91.5	103.6	415.9	513.8	458.4	187.0
80°	30.1	31.8	42.0	48.8	62.2	57.7	37.8	90.3	80.2	72.6	31.4
82.5°	16.8	18.2	23.7	38.5	43.4	27.6	18.8	24.4	18.8	18.3	8.9
85°	0.0	0.8	15.3	23.9	17.7	6.1	7.9	8.1	5.5	5.2	3.5
87.5°	0.0	0.0	4.7	4.5	0.7	1.0	1.8	2.7	2.2	2.2	1.8
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-SA1B-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6	325.6
2.5°	332.0	322.9	305.7	288.9	274.8	263.2	252.8	248.6	245.2	244.7	242.0
5°	346.8	328.4	295.6	268.7	250.7	238.0	227.0	220.3	215.1	213.1	211.2
7.5°	369.1	341.4	294.3	263.4	241.8	220.3	200.1	178.3	164.6	159.4	156.4
10°	396.4	358.5	299.3	261.8	224.2	178.8	145.3	117.5	106.3	102.6	101.6
12.5°	428.2	379.9	308.1	252.4	186.5	127.0	100.2	90.8	88.3	87.1	87.1
15°	464.6	403.3	314.3	225.2	137.9	96.0	86.8	82.4	79.7	78.2	78.4
17.5°	502.0	426.1	311.3	185.7	101.7	85.4	78.5	73.8	70.1	68.6	68.3
20°	539.7	447.3	294.5	138.2	86.1	77.5	69.8	64.6	60.9	59.4	59.0
22.5°	578.7	465.3	264.9	101.4	77.4	68.8	61.2	56.0	52.5	51.1	50.5
25°	616.7	480.0	223.5	82.1	69.1	60.5	53.3	48.4	45.2	43.9	43.7
27.5°	652.2	489.2	175.6	72.5	61.9	53.1	46.6	42.2	39.5	38.5	38.3
30°	684.1	490.0	129.8	65.4	55.5	46.8	40.7	36.8	34.5	33.5	33.1
32.5°	716.4	483.0	94.5	59.0	49.6	41.2	35.3	32.3	30.6	29.8	29.8
35°	746.8	466.7	73.7	53.5	43.9	35.8	31.1	28.9	27.9	27.1	27.1
37.5°	776.6	443.3	62.6	48.6	38.5	31.3	27.4	26.1	25.2	24.4	24.4
40°	806.9	413.9	56.8	44.1	34.1	27.7	24.4	23.2	22.4	21.7	21.5
42.5°	844.0	379.9	53.1	39.9	30.3	24.6	21.5	20.2	19.5	18.8	18.5
45°	887.1	350.6	50.1	35.7	27.1	21.9	18.7	17.3	16.3	15.5	15.3
47.5°	949.1	329.4	46.1	31.1	24.0	19.0	16.1	14.6	13.1	12.3	12.1
50°	1028.3	312.0	40.9	27.1	21.0	16.1	13.5	11.6	10.3	9.4	9.4
52.5°	1067.7	289.1	36.2	23.5	17.7	13.6	10.9	8.7	8.1	7.2	7.2
55°	1083.5	271.6	31.4	20.0	14.6	11.3	8.6	6.7	6.2	5.7	5.5
57.5°	1127.9	266.5	27.4	17.0	12.1	8.9	6.6	5.0	4.7	4.0	4.0
60°	1199.4	269.1	23.7	14.5	9.8	6.9	4.9	3.9	3.5	2.9	2.9
62.5°	1276.6	265.9	20.0	12.4	7.6	5.0	3.4	2.9	2.9	1.7	1.5
65°	1291.4	236.8	17.2	10.3	5.9	3.7	2.2	1.8	2.5	0.3	0.0
67.5°	1198.5	183.6	14.8	7.9	4.4	2.9	1.7	0.8	2.2	0.0	0.0
70°	958.4	116.7	11.9	5.7	3.4	2.4	1.3	0.3	1.7	0.0	0.0
72.5°	677.7	67.8	9.4	4.0	2.9	1.8	1.0	0.0	1.0	0.0	0.0
75°	342.7	36.2	5.9	3.0	2.2	1.3	0.7	0.0	0.2	0.0	0.0
77.5°	74.2	16.8	3.7	2.2	1.5	0.8	0.3	0.0	0.0	0.0	0.0
80°	16.1	7.4	2.4	1.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	3.9	1.2	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	2.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.7	0.2	0.2	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

REPORT NUMBER: SP1-2408-195-9

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)