

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: P318563

Luminaire Tested: **GLEON-SA9B-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40605 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

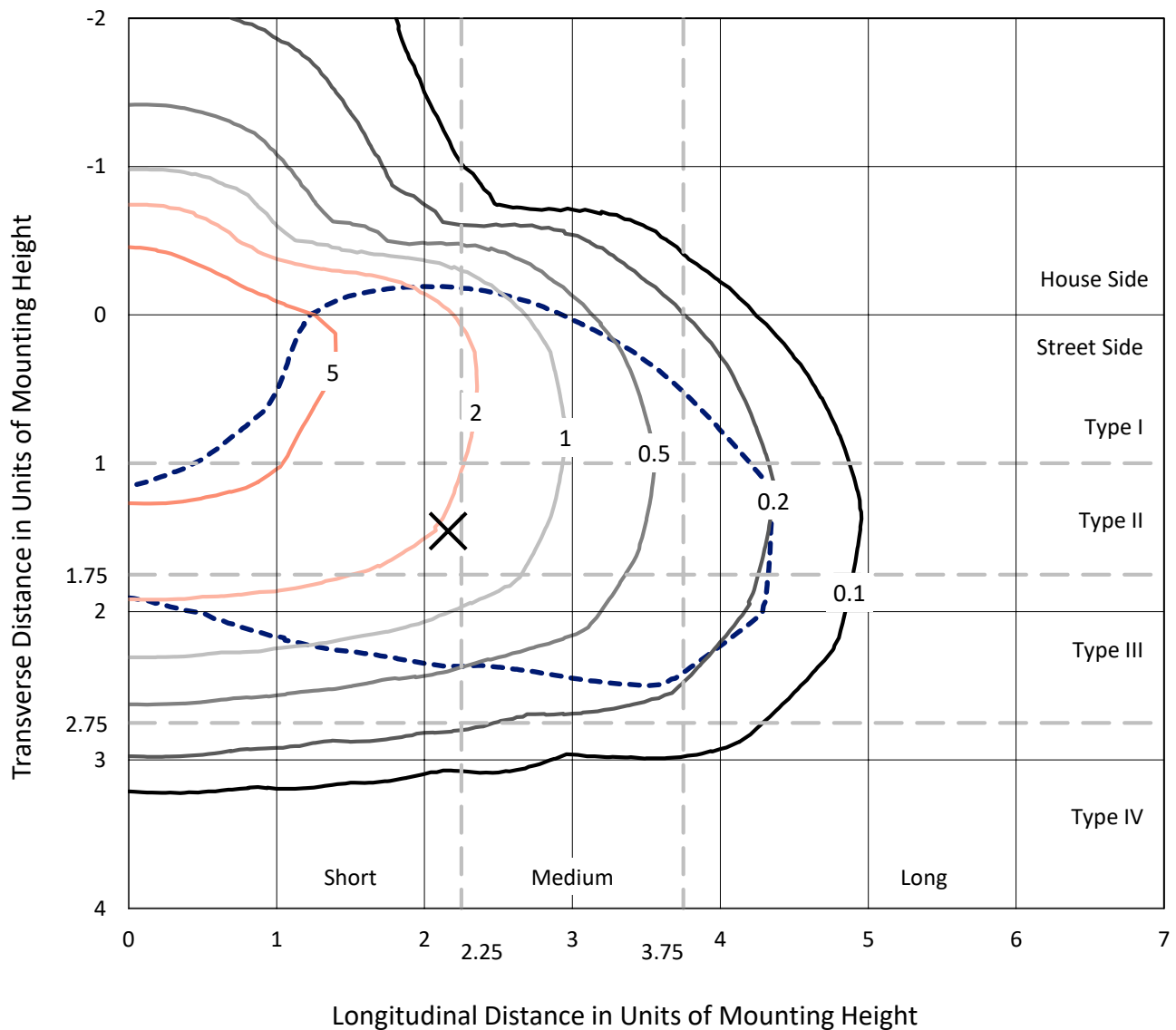
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318563
 CATALOG NUMBER: GLEON-SA9B-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

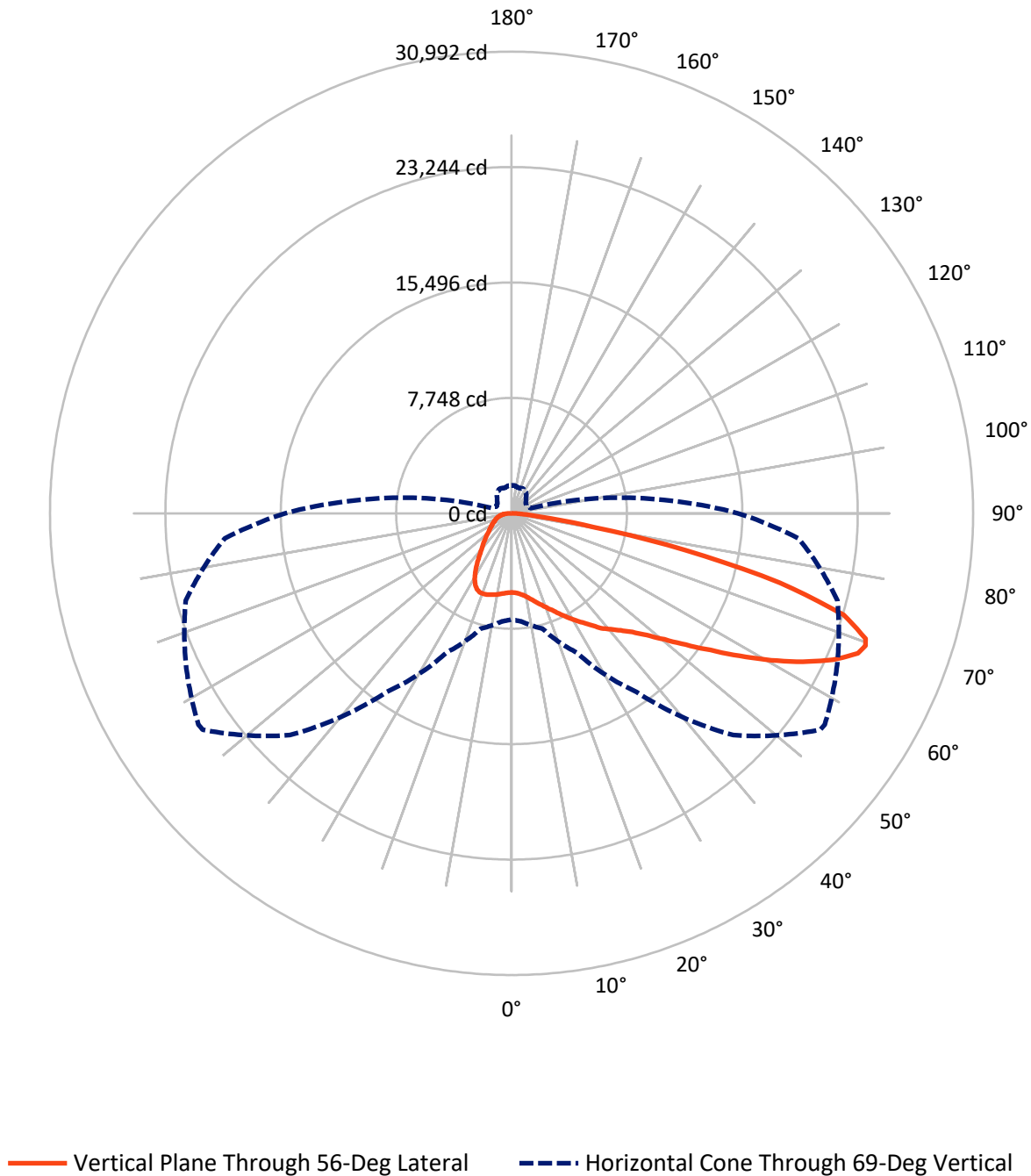
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

REPORT NUMBER: P318563
CATALOG NUMBER: GLEON-SA9B-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P318563

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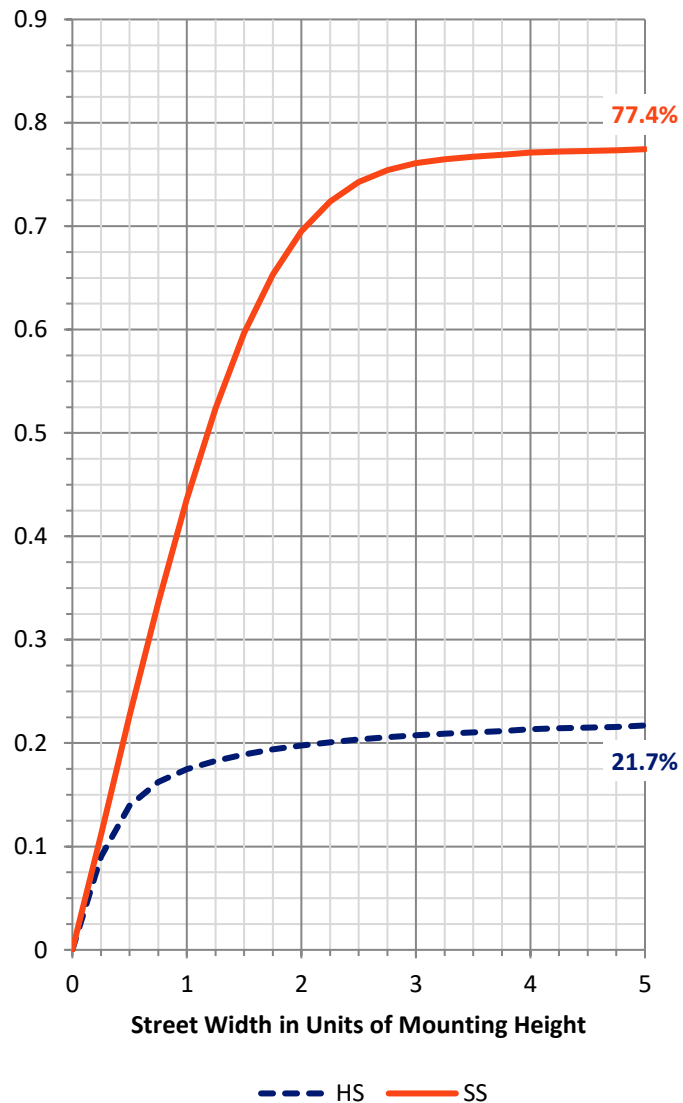
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9042.7	0.0	9042.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	31562.3	0.0	31562.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	40605.0	0.0	40605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	1.3
10°-20°	1676.5	4.1
20°-30°	2926.6	7.2
30°-40°	4204.0	10.4
40°-50°	5818.1	14.3
50°-60°	8524.3	21.0
60°-70°	10392.7	25.6
70°-80°	5745.7	14.2
80°-90°	795.8	2.0
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°	40605.0	100.0
0°-180°	40605.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318563

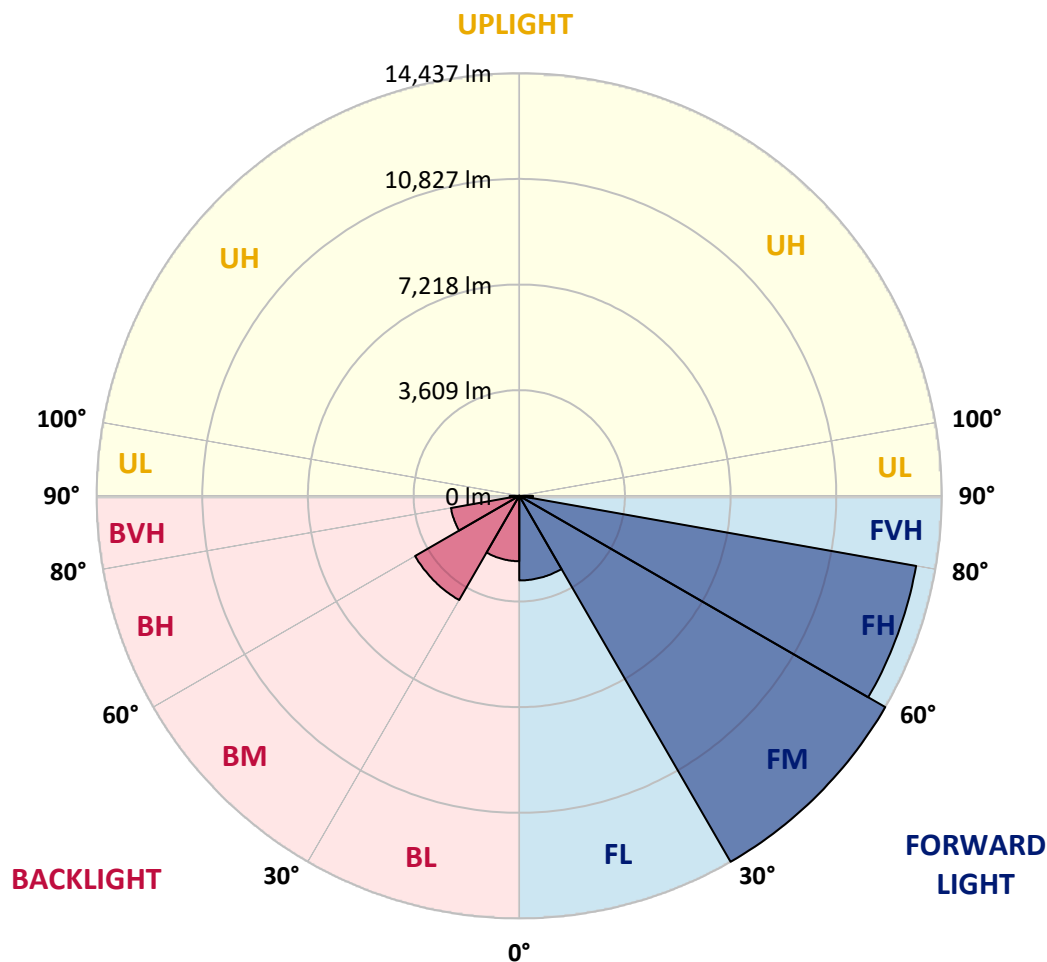
CATALOG NUMBER: GLEON-SA9B-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2889.9	7.1			
FM	(30°-60°)	14436.6	35.6			
FH	(60°-80°)	13767.1	33.9			G5
FVH	(80°-90°)	468.7	1.2			G3/500
BL	(0°-30°)	2234.6	5.5	B3/2500		
BM	(30°-60°)	4109.7	10.1	B3/5000		
BH	(60°-80°)	2371.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	327.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



REPORT NUMBER: P318563

CATALOG NUMBER: GLEON-SA9B-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5
2.5°	5342.1	5347.7	5343.5	5354.7	5342.1	5350.5	5343.5	5343.5	5339.3	5326.7	5312.7
5°	5426.0	5437.2	5430.2	5441.4	5426.0	5428.8	5416.2	5416.2	5403.6	5377.0	5349.1
7.5°	5557.5	5570.1	5564.5	5575.7	5554.7	5554.7	5537.9	5536.5	5511.3	5468.0	5435.8
10°	5714.1	5730.9	5725.3	5742.1	5725.3	5730.9	5714.1	5714.1	5680.6	5619.0	5578.5
12.5°	5942.2	5963.1	5947.7	5946.4	5939.4	5950.5	5936.6	5933.8	5903.0	5819.1	5763.1
15°	6247.1	6269.5	6237.3	6234.5	6195.3	6191.1	6191.1	6186.9	6167.4	6066.6	5974.3
17.5°	6598.2	6605.2	6577.2	6532.5	6482.1	6449.9	6445.7	6456.9	6456.9	6339.4	6192.5
20°	6942.3	6954.9	6932.5	6882.2	6817.8	6770.3	6736.7	6759.1	6757.7	6617.8	6409.4
22.5°	7317.2	7346.6	7313.0	7248.6	7173.1	7120.0	7061.2	7080.8	7082.2	6910.1	6622.0
25°	7802.6	7776.0	7755.0	7664.1	7556.4	7501.8	7447.3	7466.9	7461.3	7224.9	6841.6
27.5°	8232.0	8237.6	8209.6	8113.1	7988.6	7868.3	7865.5	7878.1	7857.1	7552.2	7048.6
30°	8731.4	8734.2	8695.0	8608.3	8472.6	8317.3	8281.0	8302.0	8257.2	7862.7	7266.8
32.5°	9228.0	9242.0	9198.6	9093.7	8984.6	8795.7	8723.0	8737.0	8625.1	8180.3	7492.0
35°	9663.0	9682.6	9668.6	9598.6	9479.8	9317.5	9230.8	9222.4	9083.9	8569.1	7790.0
37.5°	10106.4	10124.6	10109.2	10050.5	10002.9	9830.9	9784.7	9784.7	9544.1	8966.4	8169.1
40°	10562.4	10590.4	10572.2	10491.1	10450.5	10372.2	10261.7	10235.1	9974.9	9443.4	8787.3
42.5°	10986.3	11022.6	11095.4	11047.8	10965.3	10976.5	10754.1	10740.1	10549.8	10148.4	9563.7
45°	11587.8	11640.9	11764.0	11727.6	11710.9	11649.3	11384.9	11372.3	11299.6	11096.8	10527.5
47.5°	12243.8	12316.5	12539.0	12545.9	12726.4	12610.3	12250.8	12207.4	12224.2	12232.6	11703.9
50°	12848.1	12927.8	13292.9	13465.0	13890.2	13915.4	13340.5	13301.3	13367.0	13560.1	13074.7
52.5°	13330.7	13431.4	13887.4	14419.0	15147.7	15354.8	14681.9	14652.6	14701.5	15034.4	14624.6
55°	13684.6	13793.7	14290.3	15258.2	16422.1	16787.1	16226.2	16198.2	16229.0	16652.9	16310.2
57.5°	13767.1	13793.7	14514.1	15823.4	17497.7	18374.8	18116.0	18060.1	17909.0	18278.3	18170.6
60°	13379.6	13485.9	14329.4	16022.0	18330.0	19940.1	20091.1	20021.2	19597.4	19899.5	19812.8
62.5°	12593.5	12783.7	13639.8	15719.9	18656.0	21218.6	22028.5	21944.6	21214.4	21410.2	20993.4
65°	11309.4	11390.5	12290.0	14677.7	18241.9	22036.9	23756.0	23714.1	22795.0	22488.7	21211.6
67.5°	9012.5	9165.0	9928.8	12499.8	16547.9	21940.4	25091.9	25087.7	23827.4	22888.8	20438.0
69°	7120.0	7278.0	8005.4	10296.7	14642.8	21057.7	25315.7	25364.7	24118.3	22645.4	19333.0
70°	5676.4	5859.6	6359.0	8672.6	12951.6	19893.9	25129.7	25217.8	24062.4	22243.9	18313.3
72.5°	2415.7	2564.0	2919.3	4470.6	7893.5	14855.4	22976.9	23309.8	22765.7	20358.3	15135.1
75°	1054.7	1100.9	1261.7	1822.7	3504.0	8085.1	17999.9	18615.4	19465.9	17208.2	11274.4
77.5°	772.1	791.7	879.9	1070.1	1572.3	3053.6	11575.2	11933.3	14038.5	12522.2	6915.7
80°	597.3	611.3	679.8	786.1	1026.7	1235.2	5279.1	5586.9	7893.5	6431.7	2880.2
82.5°	475.6	485.4	532.9	579.1	709.2	748.4	1752.7	1944.3	2913.7	1776.5	762.4
85°	442.0	453.2	470.0	422.4	454.6	439.2	758.2	793.1	879.9	698.0	318.9
87.5°	200.0	236.4	465.8	328.7	242.0	193.0	310.5	324.5	365.1	366.5	141.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P318563

CATALOG NUMBER: GLEON-SA9B-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5
2.5°	5321.1	5316.9	5323.9	5307.1	5328.1	5326.7	5319.7	5322.5	5336.5	5335.1	5336.5
5°	5353.3	5350.5	5358.8	5346.3	5371.4	5379.8	5381.2	5393.8	5409.2	5413.4	5413.4
7.5°	5434.4	5434.4	5438.6	5421.8	5438.6	5437.2	5430.2	5442.8	5458.2	5459.6	5458.2
10°	5574.3	5575.7	5568.7	5525.3	5511.3	5473.6	5438.6	5440.0	5459.6	5475.0	5479.1
12.5°	5750.5	5744.9	5714.1	5634.4	5575.7	5498.7	5462.4	5461.0	5480.5	5493.1	5497.3
15°	5951.9	5936.6	5856.8	5726.7	5623.2	5547.7	5488.9	5475.0	5463.8	5449.8	5451.2
17.5°	6142.2	6107.2	5974.3	5793.9	5684.8	5584.1	5470.8	5379.8	5316.9	5280.5	5269.3
20°	6335.2	6266.7	6075.0	5856.8	5718.3	5535.1	5316.9	5132.2	5017.5	4964.4	4954.6
22.5°	6511.5	6401.0	6168.8	5922.6	5691.8	5370.0	5027.3	4758.8	4599.3	4528.0	4533.6
25°	6683.5	6529.7	6266.7	5968.7	5557.5	5079.1	4624.5	4294.4	4109.7	4030.0	4027.2
27.5°	6834.6	6659.7	6373.0	5931.0	5307.1	4665.0	4147.5	3825.8	3671.9	3603.3	3592.1
30°	7008.0	6823.4	6514.3	5786.9	4940.6	4186.6	3681.7	3455.1	3346.0	3277.4	3264.8
32.5°	7219.3	7045.8	6630.4	5525.3	4472.0	3687.3	3318.0	3159.9	3060.6	2983.7	2969.7
35°	7527.0	7339.6	6659.7	5150.4	3957.2	3292.8	3050.8	2888.5	2754.3	2654.9	2645.2
37.5°	7913.1	7707.5	6592.6	4665.0	3457.9	3036.8	2828.4	2628.4	2453.5	2313.6	2291.3
40°	8469.8	8159.3	6406.6	4105.5	3090.0	2839.6	2611.6	2383.6	2166.8	2003.1	1970.9
42.5°	9138.4	8689.4	6121.2	3548.8	2820.0	2639.6	2396.2	2113.6	1906.6	1790.5	1773.7
45°	9988.9	9240.6	5725.3	3062.0	2554.2	2439.5	2164.0	1903.8	1775.1	1689.8	1675.8
47.5°	10959.7	9858.8	5309.9	2666.1	2329.0	2252.1	1977.9	1810.1	1707.9	1640.8	1628.2
50°	12152.9	10556.8	4869.3	2341.6	2102.4	2026.9	1889.8	1758.3	1677.2	1625.4	1612.8
52.5°	13498.5	11344.4	4551.7	2085.6	1915.0	1860.4	1843.6	1730.3	1664.6	1625.4	1612.8
55°	14947.7	12145.9	4209.0	1870.2	1752.7	1768.1	1812.9	1733.1	1688.4	1640.8	1622.6
57.5°	16398.3	12974.0	3827.2	1688.4	1624.0	1699.6	1791.9	1738.7	1701.0	1654.8	1638.0
60°	17545.3	13498.5	3235.5	1535.9	1521.9	1624.0	1741.5	1696.8	1647.8	1649.2	1646.4
62.5°	18081.0	13470.6	2582.2	1400.2	1419.8	1521.9	1660.4	1631.0	1590.4	1645.0	1649.2
65°	17780.3	12799.1	2010.1	1277.1	1310.7	1415.6	1576.5	1598.8	1612.8	1717.7	1731.7
67.5°	16518.6	11492.6	1556.9	1169.4	1211.4	1342.9	1584.9	1741.5	1759.7	1870.2	1868.8
69°	15213.5	10267.3	1352.7	1113.5	1162.4	1361.0	1694.0	1832.4	1763.9	1881.4	1864.6
70°	14119.6	9297.9	1243.5	1075.7	1140.0	1393.2	1766.7	1831.0	1742.9	1843.6	1815.7
72.5°	10874.4	6689.1	1054.7	1005.7	1064.5	1333.1	1787.7	1790.5	1694.0	1713.5	1666.0
75°	7458.5	4227.2	920.4	910.6	949.8	1201.6	1720.5	1710.7	1566.7	1538.7	1499.5
77.5°	4112.5	2147.2	781.9	819.7	846.3	1064.5	1563.9	1549.9	1431.0	1372.2	1358.2
80°	1586.3	940.0	660.2	728.8	745.6	921.8	1370.8	1358.2	1258.9	1183.4	1162.4
82.5°	598.7	492.4	545.5	630.9	625.3	761.0	1161.0	1154.0	1057.5	947.0	913.4
85°	277.0	295.1	432.2	520.4	479.8	563.7	928.8	941.4	823.9	692.4	692.4
87.5°	117.5	165.1	306.3	393.1	323.1	380.5	681.2	650.4	597.3	414.0	388.9
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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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)