

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: P317944

Luminaire Tested: **GLEON-SA0D-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62398 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

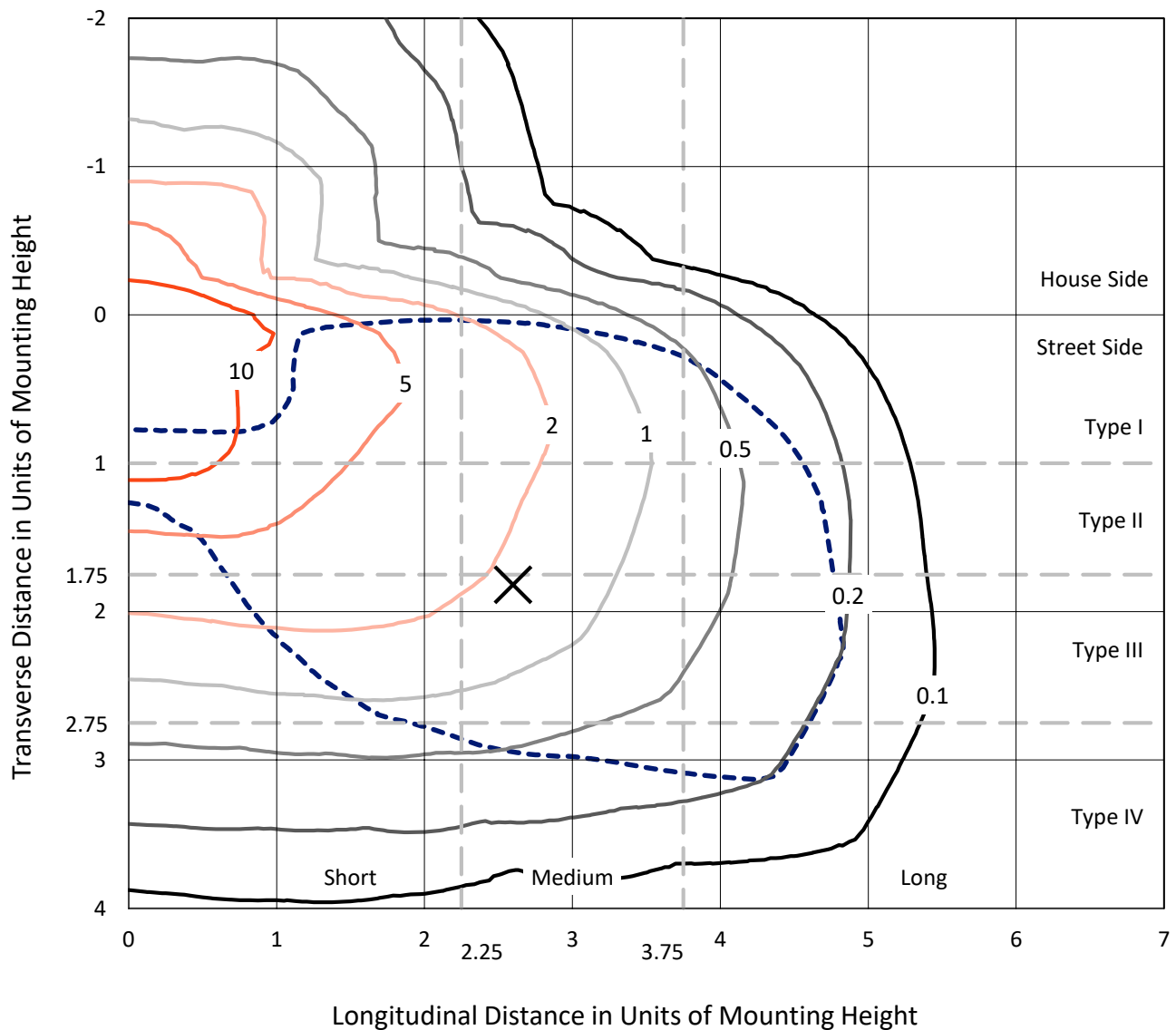
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

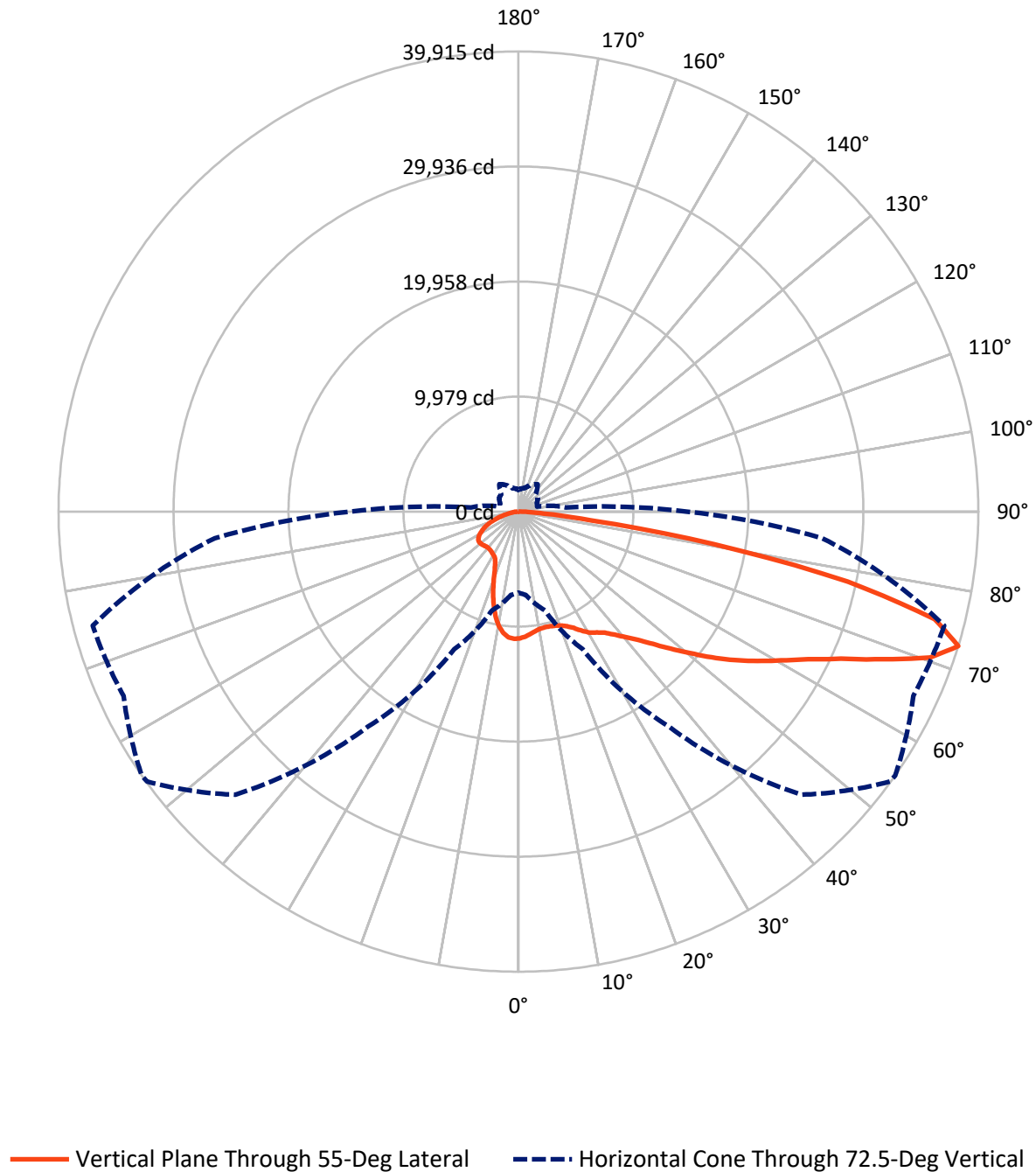
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA0D-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11597.8	0.0	11597.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	50800.3	0.0	50800.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	62398.0	0.0	62398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	995.9	1.6
10°-20°	2651.4	4.2
20°-30°	4371.5	7.0
30°-40°	6466.6	10.4
40°-50°	9026.0	14.5
50°-60°	11752.1	18.8
60°-70°	14443.0	23.1
70°-80°	11321.5	18.1
80°-90°	1370.1	2.2
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°	62398.0	100.0
0°-180°	62398.0	100.0

Coefficient of Utilization



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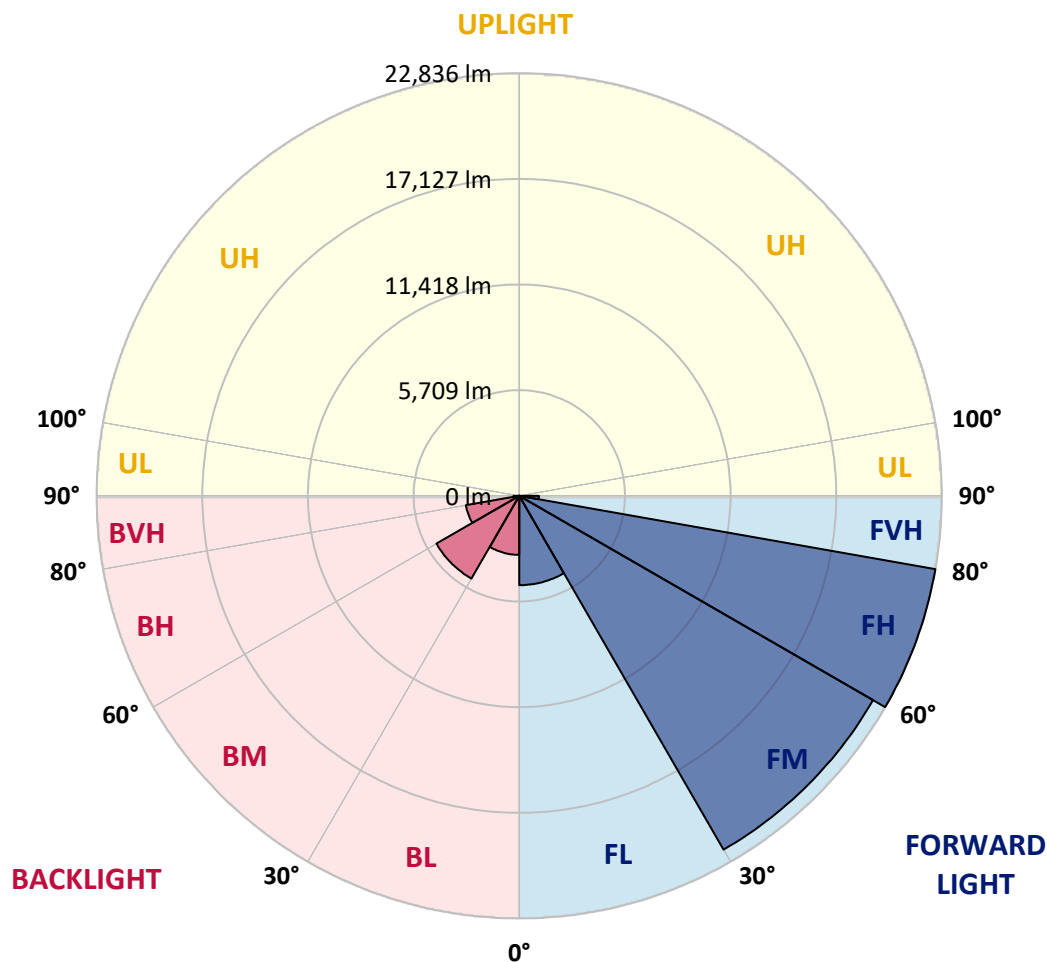
CATALOG NUMBER: GLEON-SA0D-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4827.8	7.7			
FM	(30°-60°)	22077.6	35.4			
FH	(60°-80°)	22835.6	36.6			G5
FVH	(80°-90°)	1059.3	1.7			G5
BL	(0°-30°)	3191.0	5.1	B4/5000		
BM	(30°-60°)	5167.0	8.3	B4/8500		
BH	(60°-80°)	2929.0	4.7	B4/5000		G4/5000
BVH	(80°-90°)	310.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7
2.5°	10647.4	10622.1	10653.7	10698.0	10746.4	10811.8	10849.7	10866.6	10931.9	10957.2	11012.0
5°	10154.2	10141.6	10194.3	10270.1	10377.6	10529.4	10651.6	10674.8	10847.6	10969.8	11081.5
7.5°	9795.9	9795.9	9857.0	9947.7	10067.8	10272.2	10445.1	10476.7	10769.6	11033.1	11239.6
10°	9511.4	9521.9	9593.6	9701.1	9842.3	10059.4	10289.1	10324.9	10748.5	11180.6	11509.4
12.5°	9321.7	9347.0	9412.4	9509.3	9684.2	9947.7	10238.5	10287.0	10792.8	11391.3	11833.9
15°	9441.9	9484.0	9490.3	9530.4	9627.3	9913.9	10268.0	10318.6	10887.6	11606.3	12202.8
17.5°	9968.7	9983.5	9918.2	9833.9	9787.5	9970.9	10356.5	10409.2	11001.4	11819.2	12556.8
20°	10769.6	10761.2	10620.0	10392.4	10156.3	10185.8	10502.0	10556.8	11155.3	12006.8	12910.9
22.5°	11781.2	11751.7	11534.7	11115.3	10712.7	10544.1	10757.0	10803.3	11387.1	12274.4	13290.3
25°	13007.8	12942.5	12655.9	12093.2	11500.9	11066.8	11140.5	11184.8	11724.3	12573.7	13638.0
27.5°	14301.9	14236.6	13871.9	13191.2	12403.0	11726.4	11669.5	11707.5	12107.9	12795.0	13895.1
30°	15654.9	15585.4	15252.4	14489.5	13359.8	12409.3	12162.7	12177.5	12377.7	12915.1	14105.9
32.5°	17014.3	16949.0	16575.9	15690.8	14398.8	13142.7	12518.9	12499.9	12540.0	13039.5	14344.0
35°	18392.7	18417.9	17981.7	17001.7	15549.6	13958.4	12940.4	12900.4	12811.8	13294.5	14681.2
37.5°	19867.9	19851.1	19286.3	18262.0	16753.0	14843.5	13545.3	13538.9	13233.4	13777.1	15210.2
40°	20854.3	20864.8	20521.3	19551.8	17969.0	15823.5	14320.9	14306.1	13905.7	14500.0	15903.6
42.5°	21240.0	21309.5	21398.0	20782.6	19242.0	16959.5	15246.1	15225.0	14843.5	15536.9	16719.3
45°	21267.4	21406.5	21954.4	21876.4	20531.8	18259.9	16428.4	16369.4	16095.4	16915.3	17692.9
47.5°	21031.3	21174.6	22085.1	22527.7	21684.7	19631.9	17811.0	17764.6	17528.6	18639.2	18746.7
50°	20515.0	20652.0	21815.3	22845.9	22633.1	20951.2	19404.3	19282.0	19155.6	20630.9	19952.2
52.5°	19547.6	19811.0	21454.9	22921.8	23200.0	22123.0	21079.8	20999.7	21069.3	22732.1	21159.9
55°	17256.7	17551.7	20525.5	22858.6	23619.4	23107.3	22755.3	22751.1	23111.5	24936.6	22456.0
57.5°	15973.2	16181.8	18632.9	22751.1	24116.8	24085.2	24413.9	24454.0	25155.8	27337.1	23813.3
60°	15248.2	15467.4	17674.0	22352.8	24888.1	25349.7	26106.3	26186.4	27233.9	29994.8	25446.6
62.5°	14588.5	14828.8	17079.6	21541.3	25796.5	27158.0	28133.8	28205.4	29434.1	32726.2	27025.2
65°	13461.0	13732.8	16209.2	21008.1	26622.7	29516.3	30711.3	30759.8	31961.1	35588.2	28232.8
67.5°	11867.7	12116.3	14567.4	19830.0	27233.9	32380.5	34138.2	34165.6	34467.0	37609.4	28850.4
70°	10006.7	10101.5	12228.0	17397.9	26511.0	35059.2	37893.9	37900.2	36751.6	38903.4	28749.2
72.5°	7030.8	7254.2	8877.0	13170.1	22782.7	34732.5	39843.4	39915.0	37813.8	38250.1	26452.0
75°	4312.1	4548.1	5568.2	7981.3	14453.6	27316.1	36812.7	37310.1	35822.2	34104.5	21608.8
77.5°	2883.1	2971.7	3633.4	4653.5	6548.2	15716.1	28302.4	29238.1	29758.7	24871.3	13819.3
80°	1608.1	1776.7	2408.9	2891.6	2912.6	6244.7	16970.1	17189.2	16557.0	9903.4	4263.6
82.5°	851.5	944.2	1608.1	1698.7	1589.1	2090.7	6324.8	6331.1	5290.0	2655.5	1266.6
85°	659.7	737.6	1102.3	1036.9	811.4	927.3	2086.5	2200.3	1799.9	1087.5	413.1
87.5°	328.8	408.9	748.2	657.6	318.2	265.6	746.1	796.7	710.2	425.7	149.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7	11005.7
2.5°	11033.1	11052.0	11075.2	11049.9	11041.5	11007.8	10950.9	10938.2	10908.7	10910.8	10927.7
5°	11130.0	11161.6	11149.0	11052.0	10936.1	10773.8	10605.2	10461.9	10367.1	10360.8	10354.4
7.5°	11315.5	11336.6	11237.5	10961.4	10636.8	10261.7	9907.6	9597.8	9410.2	9363.9	9353.3
10°	11606.3	11602.1	11330.2	10773.8	10126.8	9456.6	8887.6	8457.6	8206.8	8133.1	8114.1
12.5°	11930.9	11882.4	11361.8	10432.4	9406.0	8476.6	7755.8	7277.4	7016.1	6931.8	6910.7
15°	12266.0	12145.9	11283.9	9922.4	8520.9	7420.7	6664.1	6221.5	6080.3	6033.9	6025.5
17.5°	12577.9	12346.1	11060.5	9231.1	7511.3	6369.0	5778.9	5601.9	5635.6	5696.7	5698.8
20°	12883.5	12481.0	10702.2	8358.6	6447.0	5502.8	5302.6	5433.3	5593.5	5717.8	5734.7
22.5°	13184.9	12575.8	10240.6	7351.2	5494.4	5016.0	5157.2	5395.3	5578.7	5713.6	5736.8
25°	13437.8	12599.0	9604.1	6276.3	4832.6	4832.6	5087.6	5313.2	5494.4	5627.2	5650.4
27.5°	13530.5	12443.0	8706.3	5281.5	4499.6	4748.3	4990.7	5178.3	5332.1	5473.3	5498.6
30°	13566.3	12154.3	7669.4	4482.8	4362.6	4657.7	4860.0	5020.2	5165.6	5298.4	5321.6
32.5°	13572.7	11806.5	6569.3	4029.6	4267.8	4562.9	4697.7	4839.0	4994.9	5047.6	5056.0
35°	13612.7	11395.6	5410.1	3797.8	4179.3	4474.3	4581.8	4683.0	4430.1	4449.1	4465.9
37.5°	13728.6	10988.8	4440.6	3667.1	4122.4	4428.0	4556.5	4189.8	3991.7	3945.3	3939.0
40°	13945.7	10554.6	3721.9	3561.8	4101.3	4451.2	4394.3	3911.6	3570.2	3315.2	3277.3
42.5°	14247.1	10086.8	3262.5	3492.2	4116.1	4562.9	4168.7	3644.0	3077.0	2912.6	2891.6
45°	14586.4	9595.7	3013.8	3443.7	4166.6	4649.3	4122.4	3287.8	2847.3	2723.0	2712.4
47.5°	14915.2	8995.1	2885.2	3422.7	4236.2	4579.7	3926.4	3178.2	2737.7	2672.4	2678.7
50°	15292.4	8453.4	2807.3	3399.5	4297.3	4535.5	3705.1	3121.3	2695.6	2775.7	2860.0
52.5°	15610.7	7892.8	2737.7	3353.1	4320.5	4457.5	3648.2	3131.8	2695.6	2849.4	2929.5
55°	15987.9	7469.2	2657.6	3256.2	4276.2	4236.2	3608.1	3195.1	2727.2	2630.2	2638.7
57.5°	16474.8	7330.1	2569.1	3104.4	4128.7	3913.7	3589.2	3256.2	2708.2	2647.1	2668.2
60°	17149.2	7477.6	2533.3	2906.3	3899.0	3660.8	3591.3	3224.6	2575.4	2470.1	2472.2
62.5°	17792.0	7642.0	2531.2	2782.0	3616.6	3435.3	3542.8	3121.3	2508.0	2446.9	2470.1
65°	18002.8	7475.5	2430.0	2642.9	3298.3	3165.6	3454.3	3011.7	2457.4	2364.7	2360.5
67.5°	17720.3	6959.2	2225.6	2417.4	2933.7	2851.5	3338.4	2881.0	2377.3	2301.5	2288.8
70°	16881.5	5806.3	1972.7	2120.2	2518.5	2497.5	3155.0	2729.3	2269.8	2204.5	2149.7
72.5°	14624.3	4137.1	1662.9	1764.0	2050.7	2118.1	2902.1	2531.2	2118.1	1976.9	1892.6
75°	12011.0	3062.3	1365.7	1386.8	1557.5	1740.8	2554.4	2299.3	1939.0	1698.7	1633.4
77.5°	7355.4	1873.6	1087.5	1095.9	1117.0	1388.9	2103.3	2040.1	1711.3	1416.3	1369.9
80°	2381.5	1022.2	786.1	826.2	762.9	1018.0	1627.0	1736.6	1469.0	1184.4	1133.9
82.5°	906.2	596.4	531.1	558.5	529.0	682.8	1186.6	1391.0	1203.4	973.7	792.4
85°	438.4	337.2	314.0	352.0	326.7	349.9	758.7	1024.3	912.6	634.4	590.1
87.5°	156.0	149.6	120.1	162.3	139.1	124.3	231.8	516.4	602.8	436.3	389.9
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
 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 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

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



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)