

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: P317912

Luminaire Tested: **GLEON-SA8A-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317912
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-SA8A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30346 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

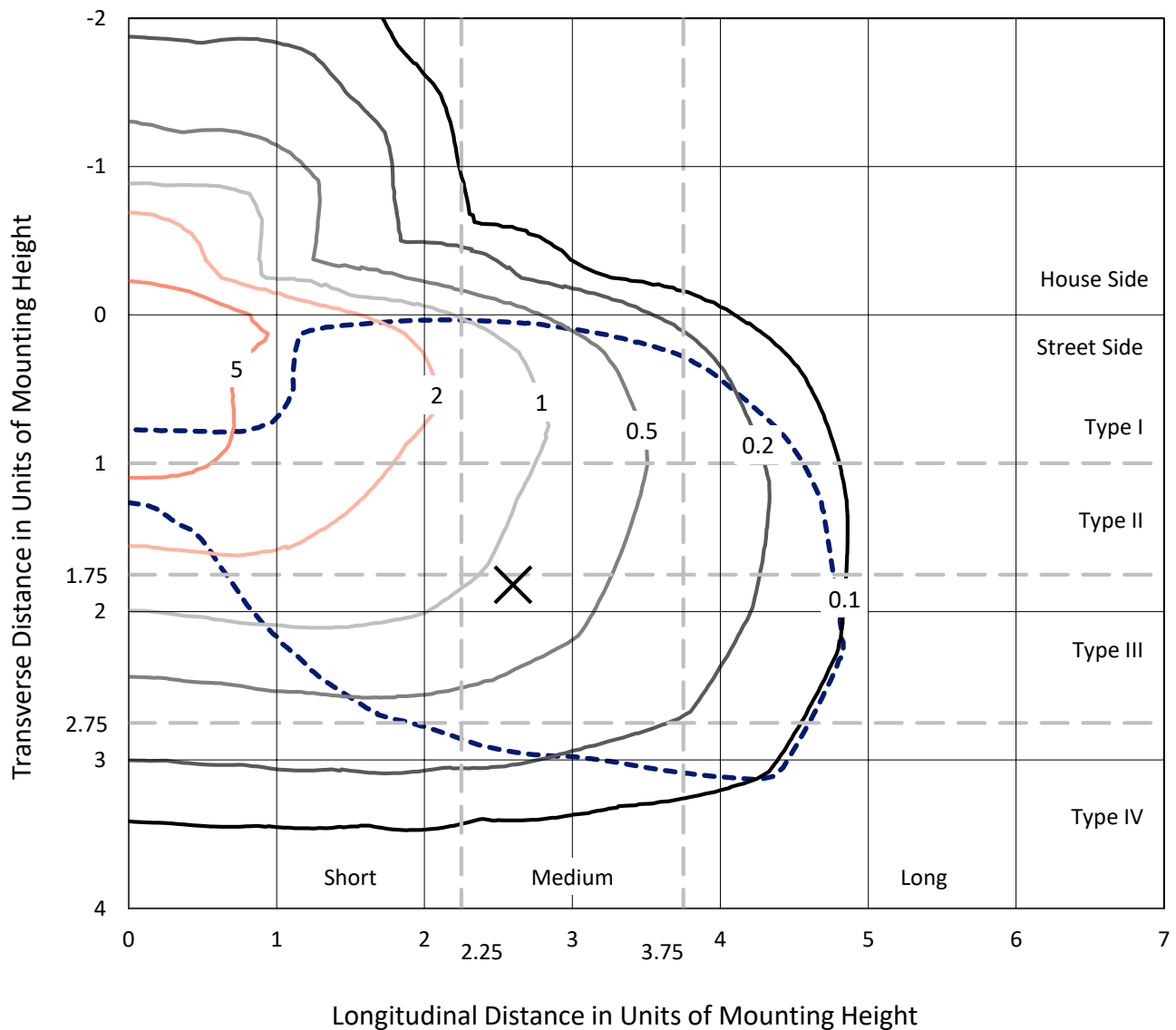


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Iso-Footcandle Lines of Horizontal Illumination

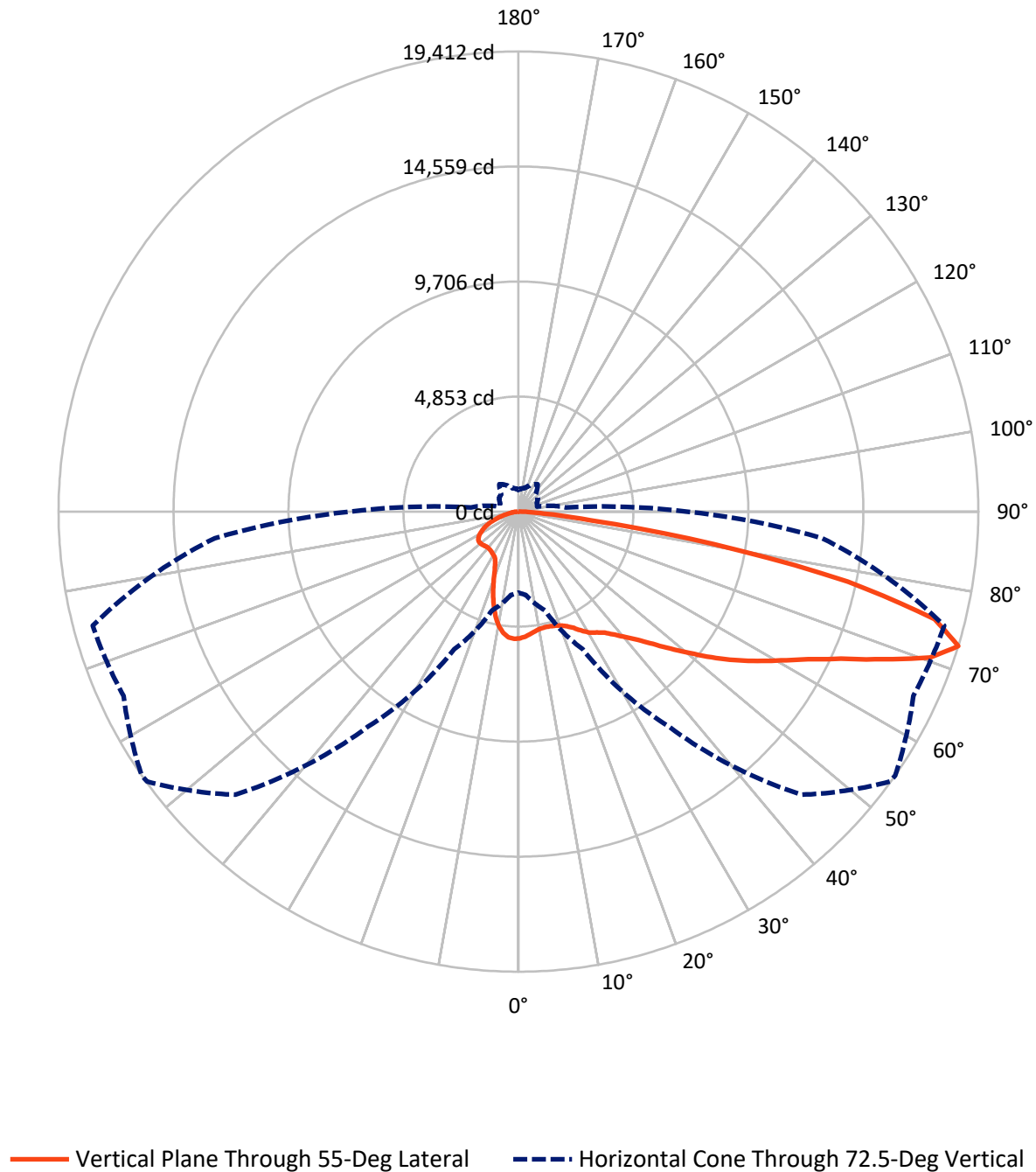
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5640.3	0.0	5640.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24705.7	0.0	24705.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	30346.0	0.0	30346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.3	1.6
10°-20°	1289.5	4.2
20°-30°	2126.0	7.0
30°-40°	3144.9	10.4
40°-50°	4389.6	14.5
50°-60°	5715.4	18.8
60°-70°	7024.0	23.1
70°-80°	5506.0	18.1
80°-90°	666.3	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°	30346.0	100.0
0°-180°	30346.0	100.0

Coefficient of Utilization



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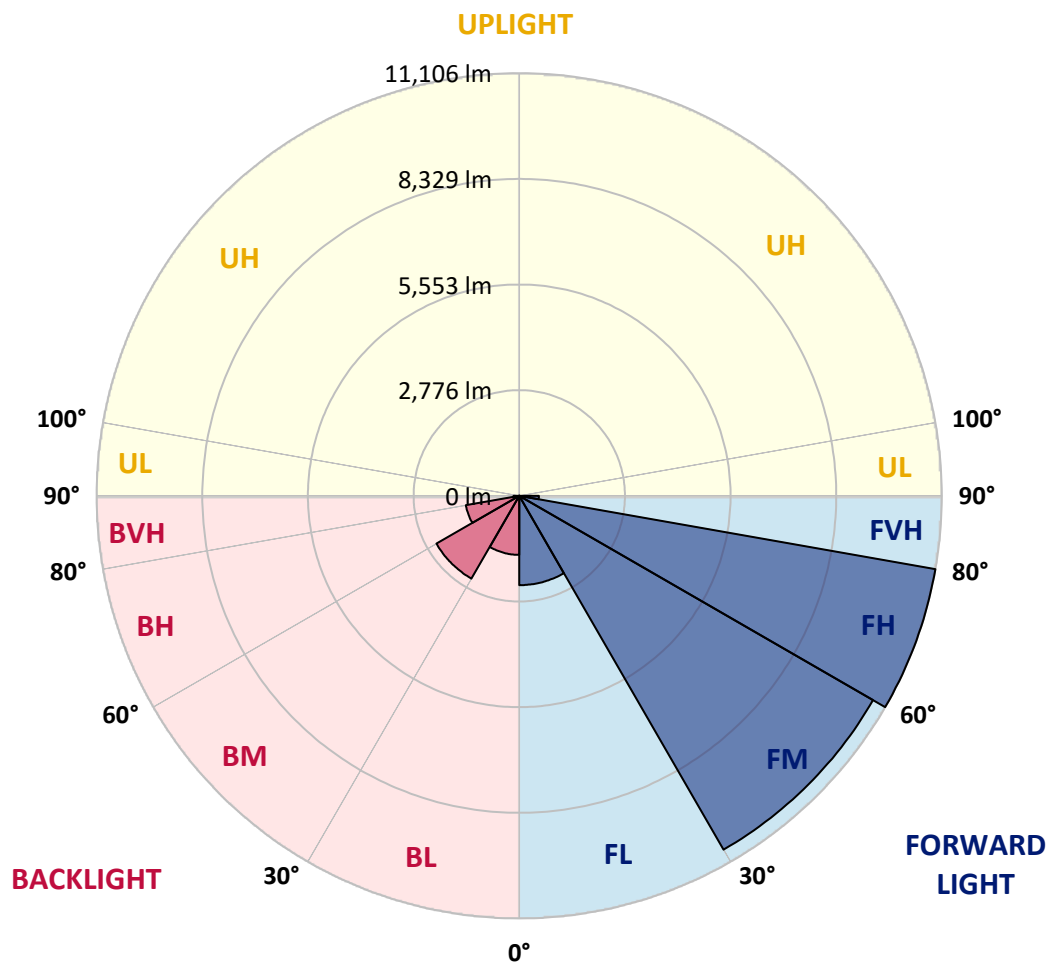
CATALOG NUMBER: GLEON-SA8A-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2347.9	7.7			
FM	(30°-60°)	10737.0	35.4			
FH	(60°-80°)	11105.6	36.6			G4/12000
FVH	(80°-90°)	515.2	1.7			G4/750
BL	(0°-30°)	1551.9	5.1	B3/2500		
BM	(30°-60°)	2512.9	8.3	B3/5000		
BH	(60°-80°)	1424.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	151.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CATALOG NUMBER: GLEON-SA8A-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4
2.5°	5178.1	5165.8	5181.2	5202.7	5226.3	5258.1	5276.5	5284.7	5316.5	5328.8	5355.5
5°	4938.3	4932.1	4957.8	4994.7	5046.9	5120.7	5180.2	5191.5	5275.5	5335.0	5389.3
7.5°	4764.1	4764.1	4793.8	4837.8	4896.3	4995.7	5079.7	5095.1	5237.6	5365.7	5466.2
10°	4625.7	4630.8	4665.7	4717.9	4786.6	4892.2	5003.9	5021.3	5227.3	5437.5	5597.3
12.5°	4533.4	4545.7	4577.5	4624.7	4709.7	4837.8	4979.3	5002.9	5248.9	5540.0	5755.2
15°	4591.9	4612.4	4615.4	4634.9	4682.1	4821.4	4993.6	5018.2	5295.0	5644.5	5934.6
17.5°	4848.1	4855.3	4823.5	4782.5	4760.0	4849.1	5036.7	5062.3	5350.3	5748.0	6106.8
20°	5237.6	5233.5	5164.8	5054.1	4939.3	4953.7	5107.4	5134.1	5425.2	5839.2	6279.0
22.5°	5729.6	5715.2	5609.6	5405.7	5209.9	5127.9	5231.4	5254.0	5537.9	5969.4	6463.4
25°	6326.1	6294.3	6154.9	5881.3	5593.2	5382.1	5418.0	5439.5	5701.9	6115.0	6632.6
27.5°	6955.4	6923.7	6746.3	6415.3	6031.9	5702.9	5675.2	5693.7	5888.4	6222.6	6757.6
30°	7613.5	7579.6	7417.7	7046.7	6497.3	6035.0	5915.1	5922.3	6019.6	6281.0	6860.1
32.5°	8274.6	8242.8	8061.4	7630.9	7002.6	6391.7	6088.3	6079.1	6098.6	6341.5	6975.9
35°	8944.9	8957.2	8745.0	8268.4	7562.2	6788.4	6293.3	6273.8	6230.8	6465.5	7139.9
37.5°	9662.4	9654.2	9379.5	8881.3	8147.5	7218.8	6587.5	6584.4	6435.8	6700.2	7397.2
40°	10142.1	10147.2	9980.1	9508.6	8738.9	7695.5	6964.7	6957.5	6762.7	7051.8	7734.4
42.5°	10329.6	10363.4	10406.5	10107.2	9358.0	8247.9	7414.6	7404.4	7218.8	7556.1	8131.1
45°	10342.9	10410.6	10677.1	10639.2	9985.2	8880.3	7989.6	7960.9	7827.7	8226.4	8604.6
47.5°	10228.2	10297.9	10740.6	10955.9	10545.9	9547.6	8662.0	8639.5	8524.7	9064.8	9117.1
50°	9977.0	10043.7	10609.4	11110.7	11007.1	10189.2	9436.9	9377.4	9315.9	10033.4	9703.4
52.5°	9506.6	9634.7	10434.2	11147.5	11282.8	10759.1	10251.7	10212.8	10246.6	11055.3	10290.7
55°	8392.4	8535.9	9982.2	11116.8	11486.8	11237.7	11066.6	11064.5	11239.8	12127.4	10921.0
57.5°	7768.2	7869.7	9061.7	11064.5	11728.7	11713.3	11873.2	11892.7	12234.0	13294.9	11581.1
60°	7415.6	7522.2	8595.4	10870.8	12103.8	12328.3	12696.3	12735.2	13244.6	14587.3	12375.5
62.5°	7094.8	7211.7	8306.3	10476.2	12545.6	13207.7	13682.3	13717.1	14314.7	15915.7	13143.2
65°	6546.5	6678.7	7883.0	10216.9	12947.4	14354.7	14935.8	14959.4	15543.6	17307.6	13730.5
67.5°	5771.6	5892.5	7084.6	9643.9	13244.6	15747.6	16602.4	16615.8	16762.3	18290.5	14030.8
70°	4866.5	4912.7	5946.9	8461.1	12893.1	17050.3	18428.9	18432.0	17873.4	18919.9	13981.6
72.5°	3419.3	3527.9	4317.2	6405.0	11079.9	16891.5	19377.0	19411.9	18390.0	18602.1	12864.4
75°	2097.1	2211.9	2708.0	3881.6	7029.2	13284.6	17903.1	18145.0	17421.4	16586.0	10509.0
77.5°	1402.2	1445.2	1767.0	2263.1	3184.6	7643.2	13764.3	14219.4	14472.5	12095.6	6720.7
80°	782.1	864.0	1171.5	1406.3	1416.5	3037.0	8253.0	8359.6	8052.1	4816.3	2073.5
82.5°	414.1	459.2	782.1	826.1	772.8	1016.8	3075.9	3079.0	2572.7	1291.5	616.0
85°	320.8	358.7	536.1	504.3	394.6	451.0	1014.7	1070.1	875.3	528.9	200.9
87.5°	159.9	198.8	363.9	319.8	154.8	129.1	362.8	387.4	345.4	207.0	72.8
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4	5352.4
2.5°	5365.7	5374.9	5386.2	5373.9	5369.8	5353.4	5325.7	5319.6	5305.2	5306.3	5314.5
5°	5412.9	5428.2	5422.1	5374.9	5318.6	5239.6	5157.6	5087.9	5041.8	5038.7	5035.7
7.5°	5503.1	5513.3	5465.1	5330.9	5173.0	4990.6	4818.4	4667.7	4576.5	4553.9	4548.8
10°	5644.5	5642.4	5510.2	5239.6	4925.0	4599.0	4322.3	4113.2	3991.2	3955.4	3946.1
12.5°	5802.3	5778.8	5525.6	5073.6	4574.4	4122.4	3771.9	3539.2	3412.1	3371.1	3360.9
15°	5965.3	5906.9	5487.7	4825.5	4143.9	3608.9	3240.9	3025.7	2957.0	2934.5	2930.4
17.5°	6117.0	6004.3	5379.0	4489.4	3653.0	3097.5	2810.5	2724.4	2740.8	2770.5	2771.5
20°	6265.6	6069.9	5204.8	4065.0	3135.4	2676.2	2578.8	2642.4	2720.3	2780.7	2788.9
22.5°	6412.2	6116.0	4980.3	3575.1	2672.1	2439.4	2508.1	2623.9	2713.1	2778.7	2790.0
25°	6535.2	6127.3	4670.8	3052.4	2350.3	2350.3	2474.3	2583.9	2672.1	2736.7	2747.9
27.5°	6580.3	6051.4	4234.1	2568.6	2188.3	2309.3	2427.1	2518.3	2593.2	2661.8	2674.1
30°	6597.7	5911.0	3729.9	2180.1	2121.7	2265.2	2363.6	2441.5	2512.2	2576.8	2588.0
32.5°	6600.8	5741.9	3194.8	1959.7	2075.6	2219.1	2284.7	2353.3	2429.2	2454.8	2458.9
35°	6620.3	5542.0	2631.1	1847.0	2032.5	2176.0	2228.3	2277.5	2154.5	2163.7	2171.9
37.5°	6676.6	5344.2	2159.6	1783.4	2004.8	2153.5	2216.0	2037.6	1941.3	1918.7	1915.7
40°	6782.2	5133.0	1810.1	1732.2	1994.6	2164.7	2137.1	1902.3	1736.3	1612.3	1593.8
42.5°	6928.8	4905.5	1586.7	1698.4	2001.8	2219.1	2027.4	1772.2	1496.5	1416.5	1406.3
45°	7093.8	4666.7	1465.7	1674.8	2026.4	2261.1	2004.8	1598.9	1384.7	1324.3	1319.1
47.5°	7253.7	4374.6	1403.2	1664.5	2060.2	2227.3	1909.5	1545.7	1331.4	1299.7	1302.7
50°	7437.2	4111.1	1365.3	1653.3	2089.9	2205.7	1801.9	1518.0	1310.9	1349.9	1390.9
52.5°	7591.9	3838.5	1331.4	1630.7	2101.2	2167.8	1774.2	1523.1	1310.9	1385.8	1424.7
55°	7775.4	3632.5	1292.5	1583.6	2079.7	2060.2	1754.7	1553.9	1326.3	1279.2	1283.3
57.5°	8012.2	3564.8	1249.4	1509.8	2007.9	1903.4	1745.5	1583.6	1317.1	1287.4	1297.6
60°	8340.2	3636.6	1232.0	1413.4	1896.2	1780.4	1746.5	1568.2	1252.5	1201.3	1202.3
62.5°	8652.8	3716.5	1231.0	1353.0	1758.8	1670.7	1723.0	1518.0	1219.7	1190.0	1201.3
65°	8755.3	3635.6	1181.8	1285.3	1604.1	1539.5	1679.9	1464.7	1195.1	1150.0	1148.0
67.5°	8617.9	3384.4	1082.4	1175.6	1426.8	1386.8	1623.5	1401.1	1156.2	1119.3	1113.1
70°	8210.0	2823.8	959.4	1031.1	1224.8	1214.6	1534.4	1327.3	1103.9	1072.1	1045.5
72.5°	7112.3	2012.0	808.7	857.9	997.3	1030.1	1411.4	1231.0	1030.1	961.4	920.4
75°	5841.3	1489.3	664.2	674.4	757.5	846.6	1242.3	1118.2	943.0	826.1	794.3
77.5°	3577.1	911.2	528.9	533.0	543.2	675.5	1022.9	992.2	832.3	688.8	666.2
80°	1158.2	497.1	382.3	401.8	371.0	495.1	791.3	844.6	714.4	576.0	551.4
82.5°	440.7	290.1	258.3	271.6	257.3	332.1	577.1	676.5	585.3	473.5	385.4
85°	213.2	164.0	152.7	171.2	158.9	170.1	369.0	498.1	443.8	308.5	287.0
87.5°	75.8	72.8	58.4	78.9	67.6	60.5	112.7	251.1	293.1	212.2	189.6
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

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



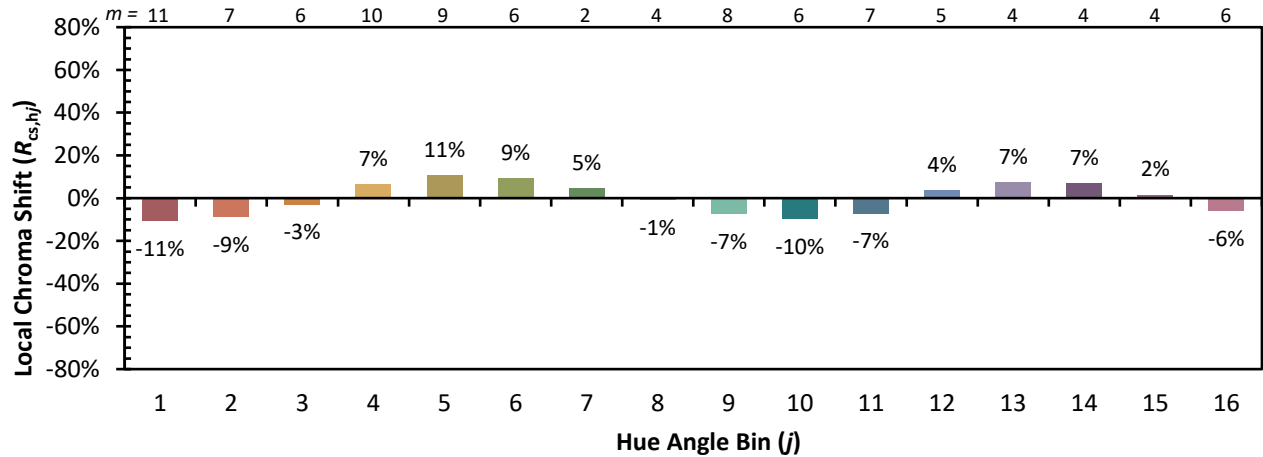
Color Vector Graphics



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)