

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: P318561

Luminaire Tested: **GLEON-SA7B-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318561
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-SA7B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 32127 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

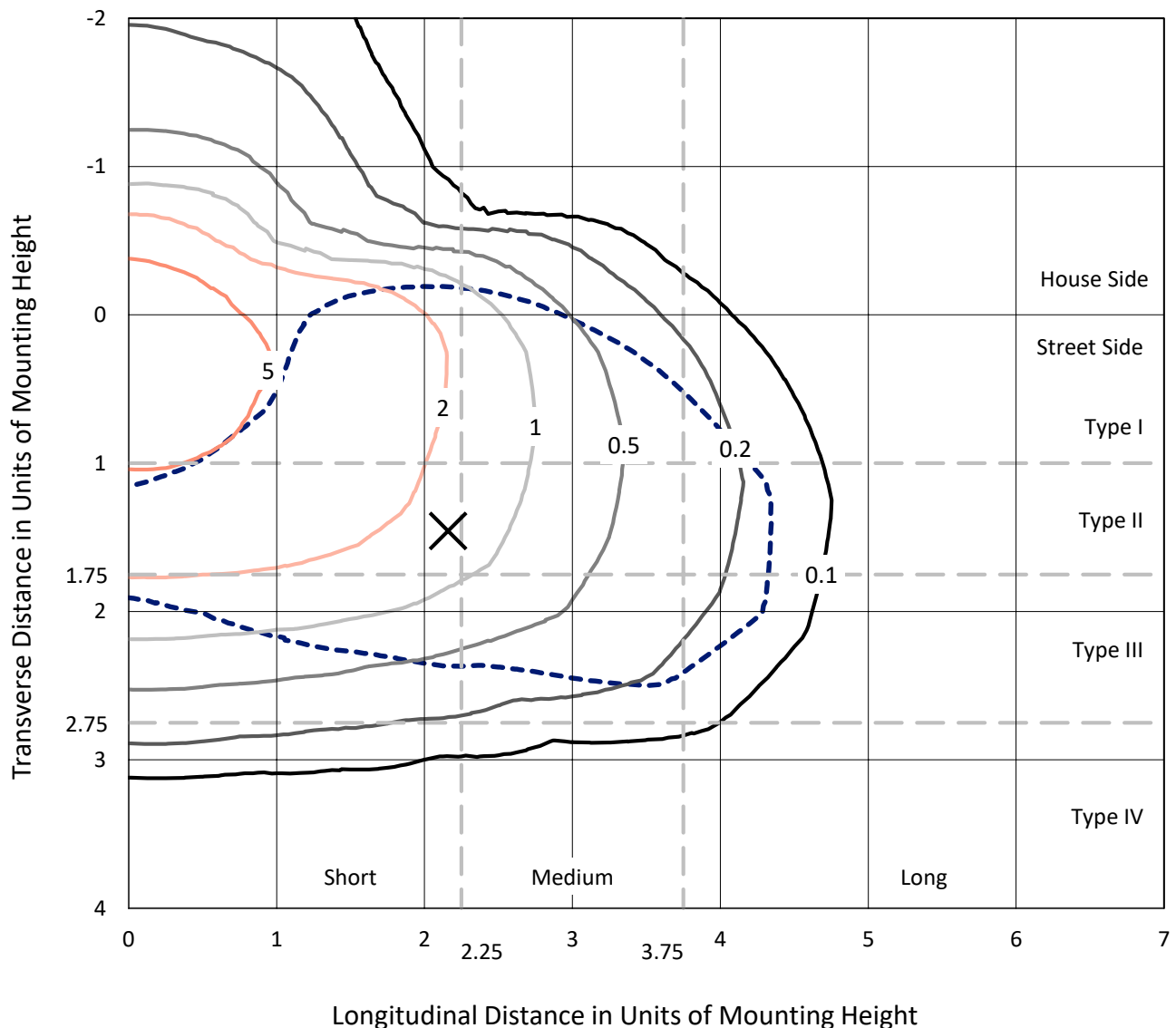
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

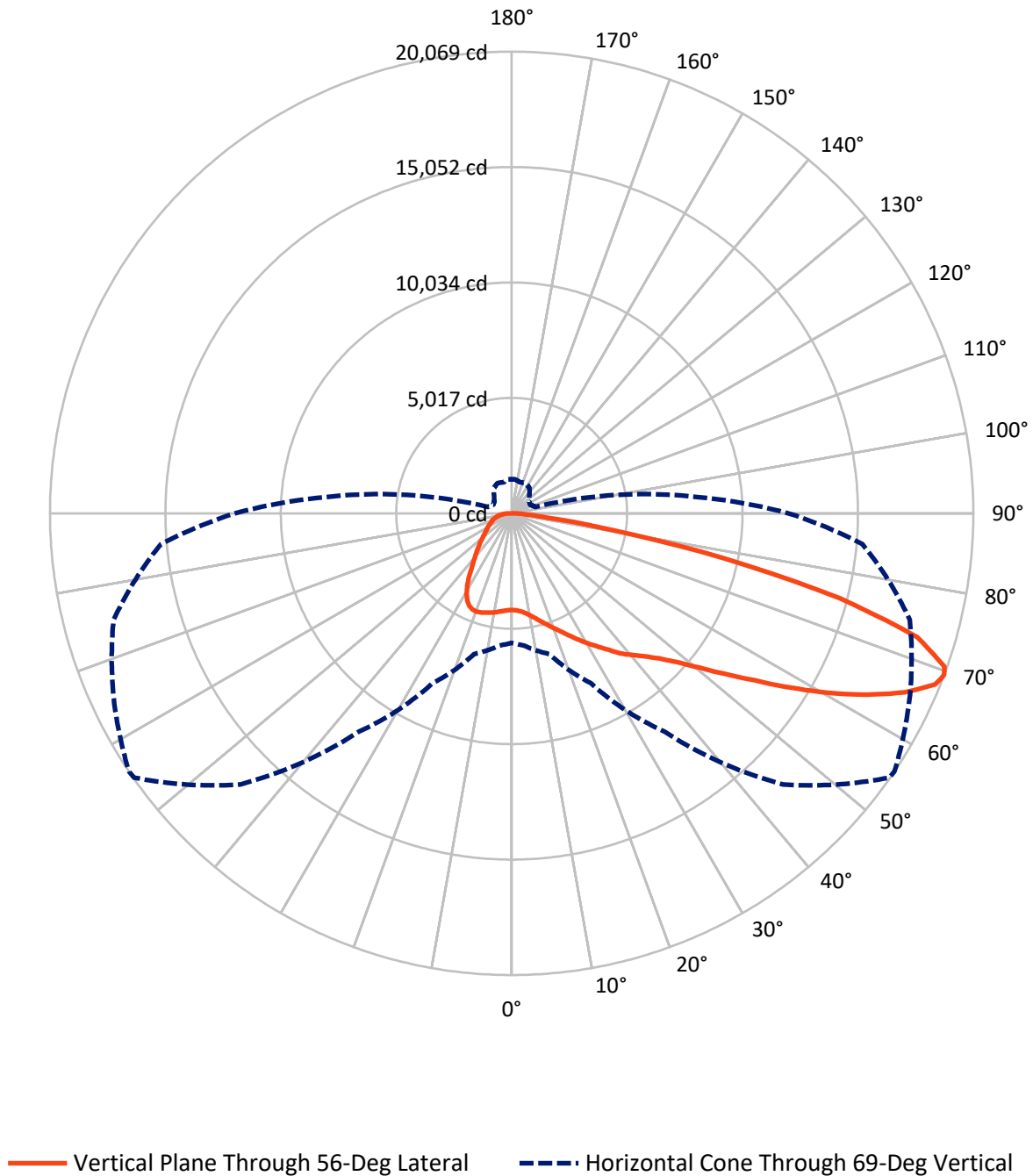
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7154.6	0.0	7154.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24972.4	0.0	24972.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	32127.0	0.0	32127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	1.3
10°-20°	1326.5	4.1
20°-30°	2315.5	7.2
30°-40°	3326.2	10.4
40°-50°	4603.3	14.3
50°-60°	6744.5	21.0
60°-70°	8222.8	25.6
70°-80°	4546.1	14.2
80°-90°	629.6	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°	32127.0	100.0
0°-180°	32127.0	100.0

Coefficient of Utilization



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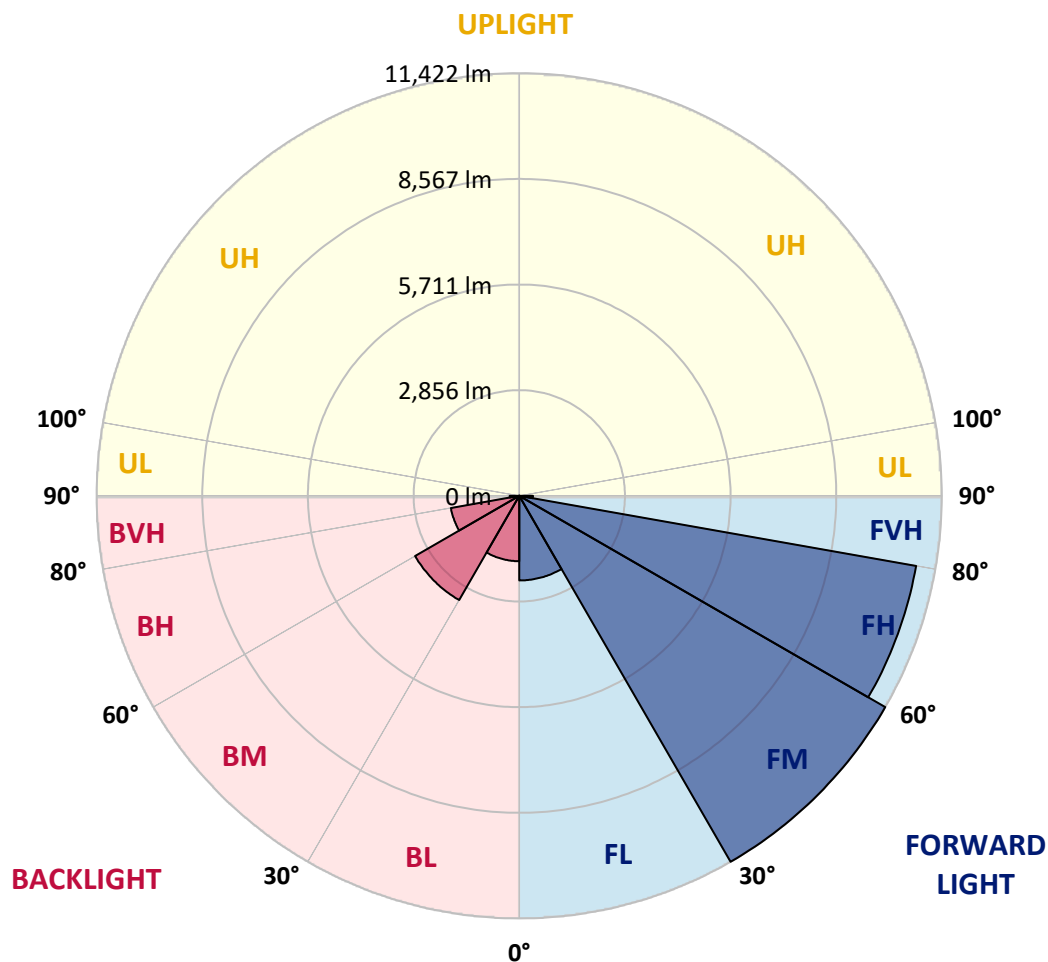
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2286.5	7.1			
FM	(30°-60°)	11422.3	35.6			
FH	(60°-80°)	10892.7	33.9			G4/12000
FVH	(80°-90°)	370.9	1.2			G3/500
BL	(0°-30°)	1768.1	5.5	B3/2500		
BM	(30°-60°)	3251.6	10.1	B3/5000		
BH	(60°-80°)	1876.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	258.8	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1
2.5°	4226.7	4231.1	4227.8	4236.6	4226.7	4233.3	4227.8	4227.8	4224.5	4214.5	4203.4
5°	4293.1	4301.9	4296.4	4305.3	4293.1	4295.3	4285.3	4285.3	4275.4	4254.4	4232.2
7.5°	4397.1	4407.1	4402.7	4411.5	4394.9	4394.9	4381.6	4380.5	4360.6	4326.3	4300.8
10°	4521.1	4534.4	4529.9	4543.2	4529.9	4534.4	4521.1	4521.1	4494.5	4445.8	4413.7
12.5°	4701.5	4718.1	4705.9	4704.8	4699.3	4708.1	4697.1	4694.8	4670.5	4604.1	4559.8
15°	4942.8	4960.5	4935.0	4932.8	4901.8	4898.5	4898.5	4895.2	4879.7	4800.0	4726.9
17.5°	5220.5	5226.1	5203.9	5168.5	5128.7	5103.2	5099.9	5108.8	5108.8	5015.8	4899.6
20°	5492.8	5502.8	5485.1	5445.2	5394.3	5356.7	5330.1	5347.8	5346.7	5236.0	5071.1
22.5°	5789.4	5812.7	5786.1	5735.2	5675.4	5633.4	5586.9	5602.4	5603.5	5467.4	5239.4
25°	6173.5	6152.4	6135.8	6063.9	5978.7	5935.5	5892.3	5907.8	5903.4	5716.4	5413.1
27.5°	6513.2	6517.7	6495.5	6419.2	6320.7	6225.5	6223.3	6233.2	6216.6	5975.4	5576.9
30°	6908.3	6910.6	6879.6	6810.9	6703.6	6580.7	6552.0	6568.6	6533.2	6221.0	5749.6
32.5°	7301.2	7312.3	7278.0	7195.0	7108.7	6959.3	6901.7	6912.8	6824.2	6472.3	5927.8
35°	7645.4	7660.9	7649.9	7594.5	7500.5	7372.1	7303.5	7296.8	7187.2	6780.0	6163.5
37.5°	7996.3	8010.7	7998.5	7952.0	7914.4	7778.2	7741.7	7741.7	7551.4	7094.3	6463.4
40°	8357.1	8379.2	8364.8	8300.6	8268.5	8206.6	8119.1	8098.1	7892.2	7471.7	6952.6
42.5°	8692.4	8721.2	8778.8	8741.1	8675.8	8684.7	8508.7	8497.6	8347.1	8029.5	7566.9
45°	9168.3	9210.4	9307.8	9279.0	9265.7	9217.0	9007.8	8997.9	8940.3	8779.9	8329.4
47.5°	9687.4	9744.9	9920.9	9926.5	10069.2	9977.4	9692.9	9658.6	9671.9	9678.5	9260.2
50°	10165.5	10228.6	10517.5	10653.6	10990.0	11010.0	10555.1	10524.1	10576.1	10728.8	10344.8
52.5°	10547.3	10627.0	10987.8	11408.4	11985.0	12148.8	11616.5	11593.2	11632.0	11895.4	11571.1
55°	10827.3	10913.7	11306.6	12072.4	12993.3	13282.1	12838.3	12816.2	12840.5	13175.9	12904.7
57.5°	10892.6	10913.7	11483.7	12519.6	13844.4	14538.3	14333.5	14289.3	14169.7	14461.9	14376.7
60°	10586.1	10670.2	11337.6	12676.7	14502.9	15776.7	15896.3	15840.9	15505.6	15744.6	15676.0
62.5°	9964.1	10114.6	10791.9	12437.7	14760.7	16788.3	17429.1	17362.7	16785.0	16939.9	16610.1
65°	8948.1	9012.3	9723.9	11613.1	14433.1	17435.8	18796.0	18762.8	18035.6	17793.2	16782.8
67.5°	7130.8	7251.4	7855.7	9889.9	13092.9	17359.4	19852.9	19849.6	18852.4	18109.8	16170.7
69°	5633.4	5758.4	6333.9	8146.8	11585.5	16661.0	20030.0	20068.7	19082.6	17917.2	15296.4
70°	4491.2	4636.2	5031.3	6861.9	10247.4	15740.2	19882.8	19952.5	19038.3	17599.6	14489.6
72.5°	1911.4	2028.7	2309.8	3537.2	6245.4	11753.7	18179.5	18442.9	18012.4	16107.7	11975.1
75°	834.5	871.0	998.3	1442.1	2772.4	6397.0	14241.7	14728.6	15401.6	13615.3	8920.4
77.5°	610.9	626.4	696.1	846.7	1244.0	2416.0	9158.4	9441.7	11107.4	9907.6	5471.8
80°	472.6	483.7	537.9	622.0	812.4	977.3	4176.9	4420.4	6245.4	5088.8	2278.8
82.5°	376.3	384.0	421.7	458.2	561.1	592.1	1386.8	1538.4	2305.4	1405.6	603.2
85°	349.7	358.6	371.9	334.2	359.7	347.5	599.9	627.5	696.1	552.3	252.3
87.5°	158.3	187.0	368.5	260.1	191.5	152.7	245.7	256.8	288.9	290.0	111.8
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°	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1
2.5°	4210.1	4206.8	4212.3	4199.0	4215.6	4214.5	4209.0	4211.2	4222.3	4221.1	4222.3
5°	4235.5	4233.3	4240.0	4230.0	4249.9	4256.6	4257.7	4267.6	4279.8	4283.1	4283.1
7.5°	4299.7	4299.7	4303.0	4289.8	4303.0	4301.9	4296.4	4306.4	4318.5	4319.7	4318.5
10°	4410.4	4411.5	4406.0	4371.7	4360.6	4330.7	4303.0	4304.2	4319.7	4331.8	4335.1
12.5°	4549.9	4545.4	4521.1	4458.0	4411.5	4350.6	4321.9	4320.8	4336.3	4346.2	4349.5
15°	4709.2	4697.1	4634.0	4531.0	4449.1	4389.4	4342.9	4331.8	4323.0	4311.9	4313.0
17.5°	4859.7	4832.1	4726.9	4584.2	4497.8	4418.2	4328.5	4256.6	4206.8	4178.0	4169.1
20°	5012.5	4958.2	4806.6	4634.0	4524.4	4379.4	4206.8	4060.7	3969.9	3927.9	3920.1
22.5°	5151.9	5064.5	4880.8	4686.0	4503.4	4248.8	3977.7	3765.2	3639.0	3582.6	3587.0
25°	5288.1	5166.3	4958.2	4722.5	4397.1	4018.6	3658.9	3397.7	3251.6	3188.6	3186.3
27.5°	5407.6	5269.2	5042.4	4692.6	4199.0	3691.0	3281.5	3027.0	2905.2	2851.0	2842.1
30°	5544.8	5398.7	5154.1	4578.6	3909.0	3312.5	2913.0	2733.7	2647.3	2593.1	2583.2
32.5°	5711.9	5574.7	5246.0	4371.7	3538.3	2917.4	2625.2	2500.2	2421.6	2360.7	2349.6
35°	5955.4	5807.1	5269.2	4075.1	3131.0	2605.3	2413.8	2285.4	2179.2	2100.6	2092.9
37.5°	6260.9	6098.2	5216.1	3691.0	2735.9	2402.8	2237.9	2079.6	1941.2	1830.6	1812.9
40°	6701.4	6455.7	5068.9	3248.3	2444.8	2246.7	2066.3	1885.9	1714.4	1584.9	1559.4
42.5°	7230.4	6875.1	4843.1	2807.8	2231.2	2088.4	1895.9	1672.3	1508.5	1416.6	1403.4
45°	7903.3	7311.2	4529.9	2422.7	2020.9	1930.2	1712.1	1506.3	1404.5	1337.0	1325.9
47.5°	8671.4	7800.4	4201.2	2109.5	1842.7	1781.9	1564.9	1432.1	1351.3	1298.2	1288.3
50°	9615.5	8352.7	3852.6	1852.7	1663.4	1603.7	1495.2	1391.2	1327.0	1286.0	1276.1
52.5°	10680.2	8975.8	3601.4	1650.2	1515.1	1472.0	1458.7	1369.1	1317.0	1286.0	1276.1
55°	11826.7	9609.9	3330.2	1479.7	1386.8	1398.9	1434.3	1371.3	1335.8	1298.2	1283.8
57.5°	12974.4	10265.1	3028.1	1335.8	1284.9	1344.7	1417.7	1375.7	1345.8	1309.3	1296.0
60°	13882.0	10680.2	2559.9	1215.2	1204.1	1284.9	1377.9	1342.5	1303.8	1304.9	1302.6
62.5°	14305.9	10658.0	2043.1	1107.9	1123.4	1204.1	1313.7	1290.5	1258.4	1301.5	1304.9
65°	14067.9	10126.8	1590.4	1010.5	1037.0	1120.0	1247.3	1265.0	1276.1	1359.1	1370.2
67.5°	13069.6	9093.1	1231.8	925.2	958.4	1062.5	1253.9	1377.9	1392.3	1479.7	1478.6
69°	12037.0	8123.6	1070.2	881.0	919.7	1076.9	1340.3	1449.8	1395.6	1488.6	1475.3
70°	11171.5	7356.6	983.9	851.1	902.0	1102.3	1397.8	1448.7	1379.0	1458.7	1436.6
72.5°	8603.9	5292.5	834.5	795.8	842.2	1054.7	1414.4	1416.6	1340.3	1355.8	1318.1
75°	5901.2	3344.6	728.2	720.5	751.5	950.7	1361.3	1353.6	1239.6	1217.4	1186.4
77.5°	3253.8	1698.9	618.7	648.6	669.6	842.2	1237.3	1226.3	1132.2	1085.7	1074.7
80°	1255.1	743.7	522.4	576.6	589.9	729.3	1084.6	1074.7	996.1	936.3	919.7
82.5°	473.7	389.6	431.6	499.1	494.7	602.1	918.6	913.1	836.7	749.3	722.7
85°	219.1	233.5	342.0	411.7	379.6	446.0	734.9	744.8	651.9	547.8	547.8
87.5°	93.0	130.6	242.4	311.0	255.7	301.0	539.0	514.6	472.6	327.6	307.7
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 [^] /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			

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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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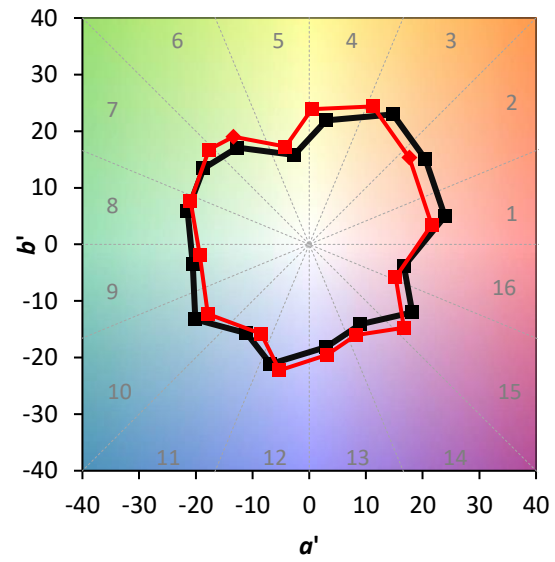
TM-30-18

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)