

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P318553

Luminaire Tested: **GLEON-SA9A-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318553
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-SA9A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33114 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

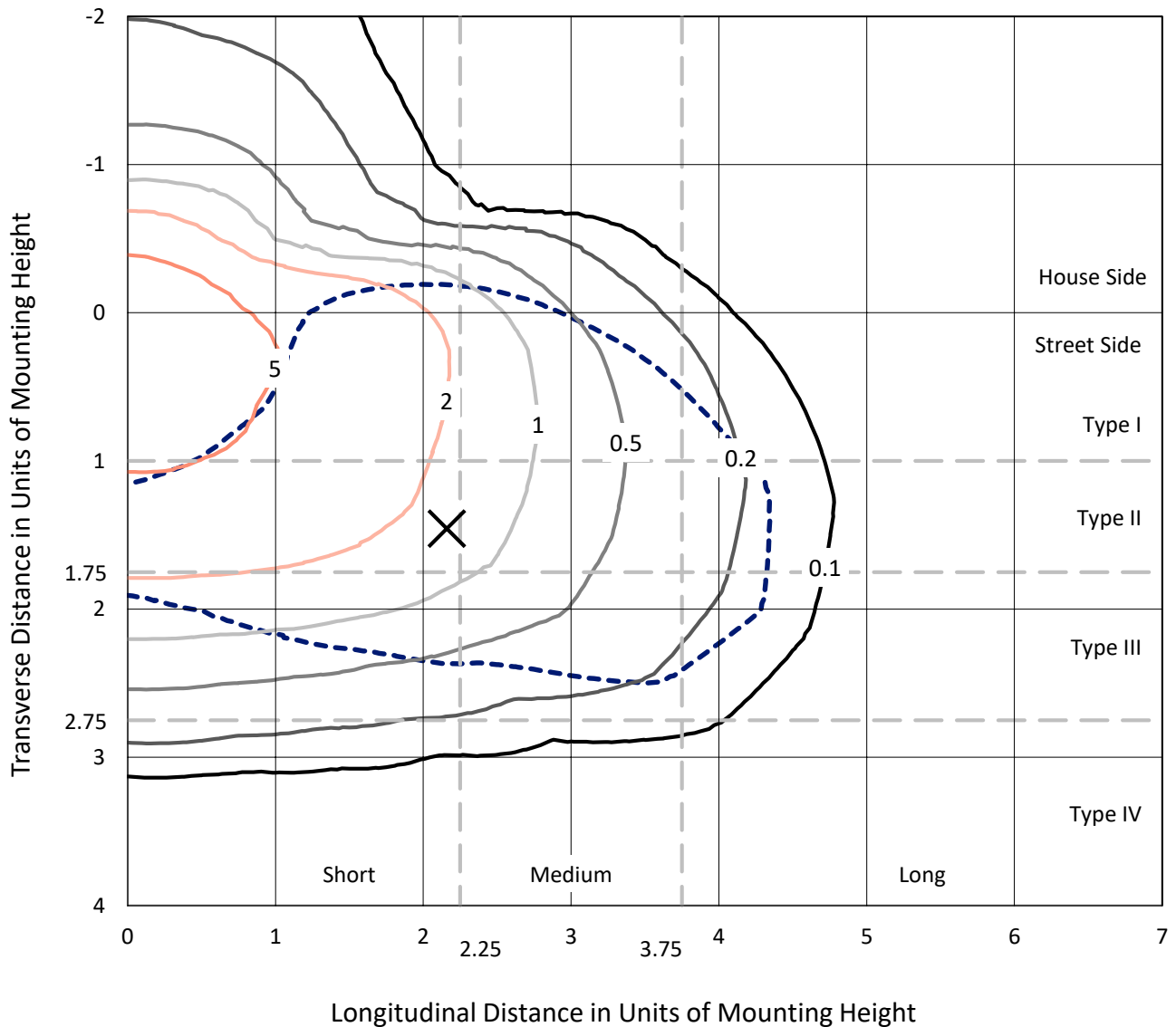
Input Watts (W): 290
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

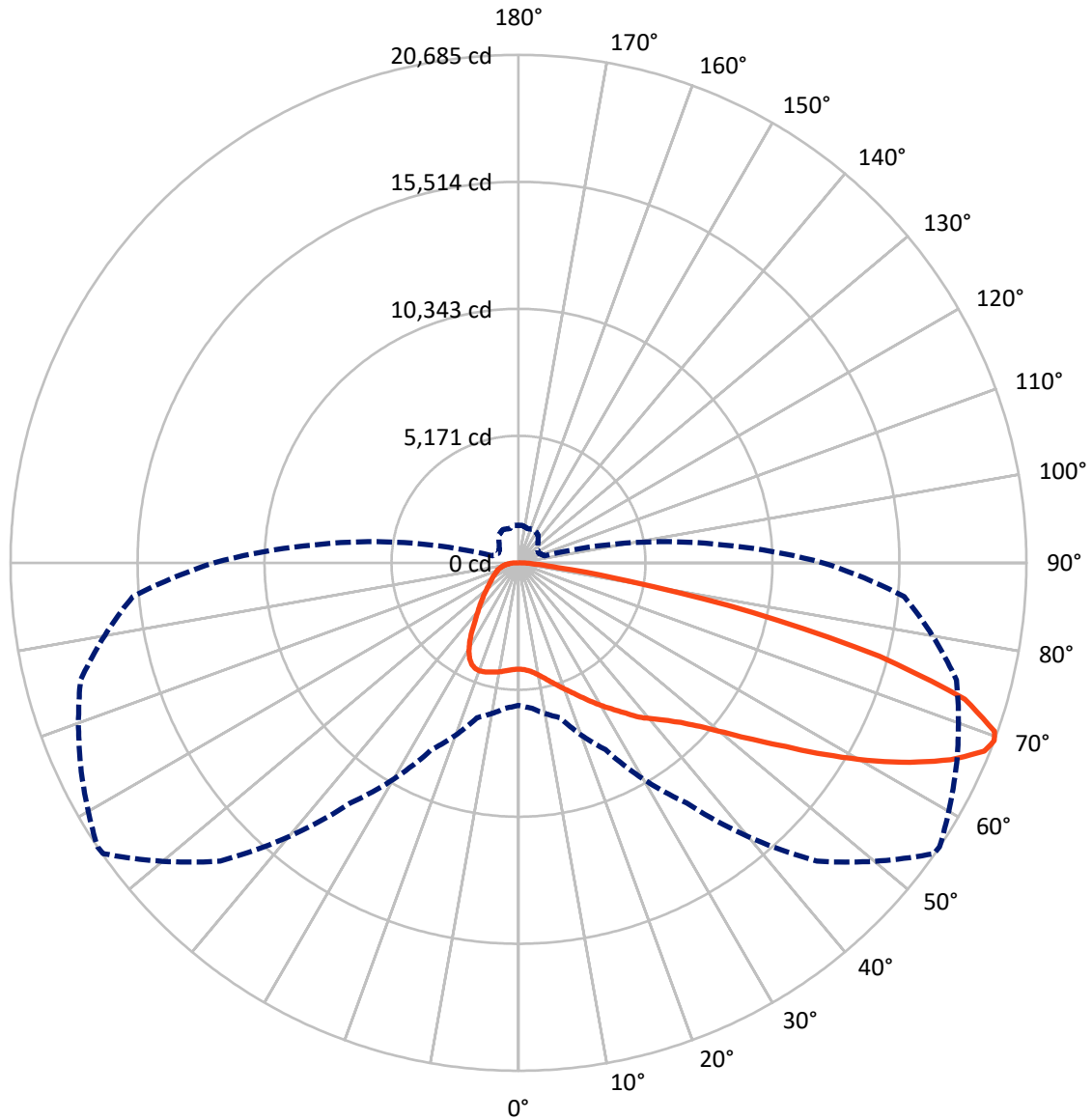
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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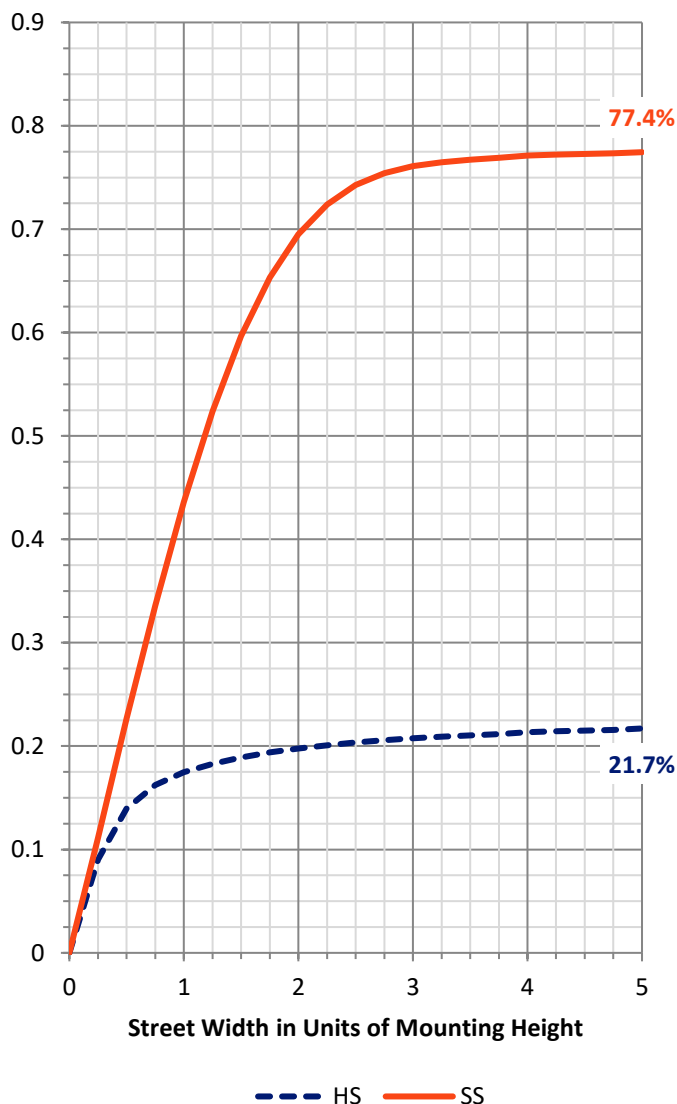
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7374.4	0.0	7374.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25739.6	0.0	25739.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	33114.0	0.0	33114.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.2	1.3
10°-20°	1367.3	4.1
20°-30°	2386.7	7.2
30°-40°	3428.4	10.4
40°-50°	4744.7	14.3
50°-60°	6951.7	21.0
60°-70°	8475.4	25.6
70°-80°	4685.7	14.2
80°-90°	649.0	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°	33114.0	100.0
0°-180°	33114.0	100.0

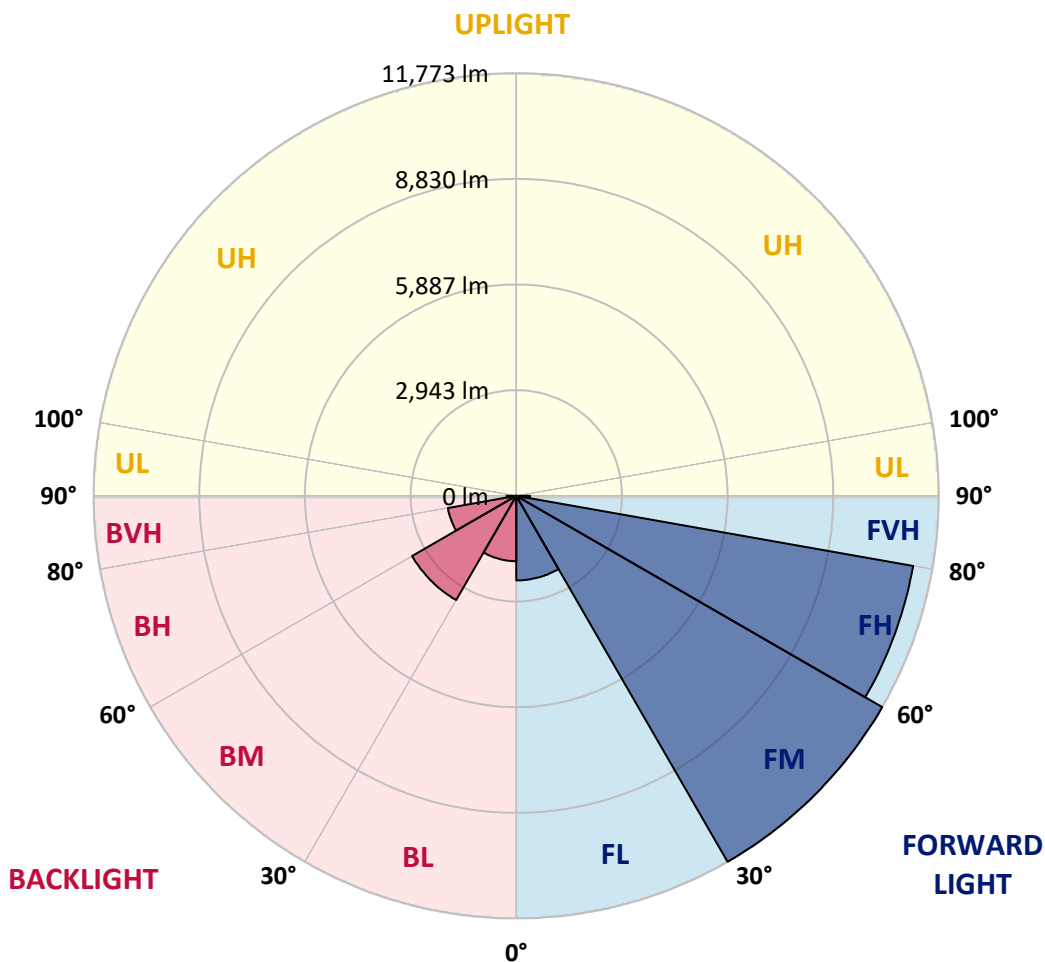


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2356.7	7.1			
FM (30°-60°)	11773.3	35.6			
FH (60°-80°)	11227.3	33.9			G4/12000
FVH (80°-90°)	382.3	1.2			G3/500
BL (0°-30°)	1822.4	5.5	B3/2500		
BM (30°-60°)	3351.5	10.1	B3/5000		
BH (60°-80°)	1933.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	266.7	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°	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2
2.5°	4356.5	4361.1	4357.7	4366.8	4356.5	4363.4	4357.7	4357.7	4354.3	4344.0	4332.6
5°	4425.0	4434.1	4428.4	4437.5	4425.0	4427.3	4417.0	4417.0	4406.7	4385.1	4362.2
7.5°	4532.2	4542.5	4537.9	4547.0	4529.9	4529.9	4516.2	4515.1	4494.6	4459.2	4433.0
10°	4660.0	4673.7	4669.1	4682.8	4669.1	4673.7	4660.0	4660.0	4632.6	4582.4	4549.3
12.5°	4845.9	4863.0	4850.5	4849.3	4843.6	4852.8	4841.4	4839.1	4814.0	4745.5	4699.9
15°	5094.6	5112.9	5086.6	5084.3	5052.4	5049.0	5049.0	5045.5	5029.6	4947.4	4872.2
17.5°	5380.9	5386.6	5363.8	5327.3	5286.2	5260.0	5256.6	5265.7	5265.7	5169.9	5050.1
20°	5661.6	5671.8	5653.6	5612.5	5560.0	5521.2	5493.9	5512.1	5511.0	5396.9	5226.9
22.5°	5967.3	5991.2	5963.9	5911.4	5849.8	5806.4	5758.5	5774.5	5775.6	5635.3	5400.3
25°	6363.1	6341.4	6324.3	6250.2	6162.3	6117.9	6073.4	6089.3	6084.8	5892.0	5579.4
27.5°	6713.3	6717.9	6695.1	6616.4	6514.8	6416.7	6414.5	6424.7	6407.6	6158.9	5748.3
30°	7120.6	7122.9	7090.9	7020.2	6909.5	6782.9	6753.3	6770.4	6733.9	6412.2	5926.2
32.5°	7525.5	7537.0	7501.6	7416.0	7327.1	7173.1	7113.7	7125.1	7033.9	6671.1	6109.9
35°	7880.3	7896.3	7884.9	7827.8	7730.9	7598.6	7527.8	7521.0	7408.0	6988.3	6352.9
37.5°	8241.9	8256.8	8244.2	8196.3	8157.5	8017.2	7979.6	7979.6	7783.4	7312.2	6662.0
40°	8613.8	8636.6	8621.8	8555.6	8522.6	8458.7	8368.6	8346.9	8134.7	7701.2	7166.2
42.5°	8959.5	8989.1	9048.5	9009.7	8942.4	8951.5	8770.1	8758.7	8603.6	8276.2	7799.3
45°	9450.0	9493.3	9593.7	9564.1	9550.4	9500.2	9284.6	9274.3	9215.0	9049.6	8585.3
47.5°	9985.0	10044.3	10225.7	10231.4	10378.6	10283.9	9990.7	9955.4	9969.0	9975.9	9544.7
50°	10477.8	10542.8	10840.6	10980.9	11327.7	11348.2	10879.4	10847.4	10901.0	11058.5	10662.6
52.5°	10871.4	10953.5	11325.4	11758.9	12353.2	12522.0	11973.3	11949.4	11989.3	12260.8	11926.6
55°	11160.0	11249.0	11653.9	12443.3	13392.4	13690.2	13232.7	13209.9	13235.0	13580.7	13301.2
57.5°	11227.3	11249.0	11836.5	12904.2	14269.7	14984.9	14773.9	14728.3	14605.1	14906.2	14818.4
60°	10911.3	10998.0	11685.9	13066.2	14948.4	16261.4	16384.6	16327.6	15981.9	16228.3	16157.6
62.5°	10270.2	10425.3	11123.5	12819.8	15214.2	17304.1	17964.6	17896.1	17300.7	17460.4	17120.4
65°	9223.0	9289.2	10022.7	11969.9	14876.6	17971.4	19373.4	19339.2	18589.7	18339.9	17298.4
67.5°	7349.9	7474.2	8097.1	10193.8	13495.1	17892.7	20462.8	20459.4	19431.6	18666.1	16667.5
69°	5806.4	5935.3	6528.5	8397.1	11941.4	17172.9	20645.3	20685.3	19668.9	18467.6	15766.3
70°	4629.2	4778.6	5185.9	7072.7	10562.2	16223.8	20493.6	20565.5	19623.2	18140.3	14934.7
72.5°	1970.1	2091.0	2380.8	3645.8	6437.3	12114.8	18738.0	19009.5	18565.8	16602.5	12342.9
75°	860.1	897.8	1029.0	1486.4	2857.6	6593.6	14679.2	15181.1	15874.7	14033.5	9194.5
77.5°	629.7	645.7	717.5	872.7	1282.2	2490.3	9439.7	9731.8	11448.6	10212.0	5639.9
80°	487.1	498.5	554.4	641.1	837.3	1007.3	4305.2	4556.2	6437.3	5245.2	2348.8
82.5°	387.9	395.8	434.6	472.3	578.4	610.3	1429.4	1585.6	2376.2	1448.8	621.7
85°	360.5	369.6	383.3	344.5	370.7	358.2	618.3	646.8	717.5	569.2	260.1
87.5°	163.1	192.8	379.9	268.1	197.4	157.4	253.2	264.7	297.7	298.9	115.2
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°	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2	4329.2
2.5°	4339.4	4336.0	4341.7	4328.0	4345.1	4344.0	4338.3	4340.6	4352.0	4350.8	4352.0
5°	4365.7	4363.4	4370.2	4360.0	4380.5	4387.3	4388.5	4398.7	4411.3	4414.7	4414.7
7.5°	4431.8	4431.8	4435.2	4421.6	4435.2	4434.1	4428.4	4438.7	4451.2	4452.4	4451.2
10°	4545.9	4547.0	4541.3	4506.0	4494.6	4463.8	4435.2	4436.4	4452.4	4464.9	4468.3
12.5°	4689.6	4685.1	4660.0	4595.0	4547.0	4484.3	4454.6	4453.5	4469.5	4479.7	4483.2
15°	4853.9	4841.4	4776.3	4670.2	4585.8	4524.2	4476.3	4464.9	4455.8	4444.4	4445.5
17.5°	5009.0	4980.5	4872.2	4725.0	4636.0	4553.9	4461.5	4387.3	4336.0	4306.3	4297.2
20°	5166.5	5110.6	4954.3	4776.3	4663.4	4514.0	4336.0	4185.4	4091.9	4048.5	4040.5
22.5°	5310.2	5220.1	5030.7	4829.9	4641.7	4379.4	4099.9	3880.8	3750.8	3692.6	3697.2
25°	5450.5	5325.0	5110.6	4867.6	4532.2	4142.1	3771.3	3502.1	3351.5	3286.5	3284.2
27.5°	5573.7	5431.1	5197.3	4836.8	4328.0	3804.4	3382.3	3120.0	2994.5	2938.6	2929.5
30°	5715.2	5564.6	5312.5	4719.3	4029.1	3414.3	3002.5	2817.7	2728.7	2672.8	2662.5
32.5°	5887.4	5746.0	5407.2	4506.0	3647.0	3007.0	2705.9	2577.0	2496.0	2433.2	2421.8
35°	6138.4	5985.5	5431.1	4200.3	3227.2	2685.3	2488.0	2355.7	2246.1	2165.1	2157.2
37.5°	6453.2	6285.5	5376.4	3804.4	2819.9	2476.6	2306.6	2143.5	2000.9	1886.8	1868.6
40°	6907.3	6654.0	5224.6	3348.1	2519.9	2315.7	2129.8	1943.8	1767.0	1633.6	1607.3
42.5°	7452.5	7086.4	4991.9	2894.1	2299.8	2152.6	1954.1	1723.7	1554.8	1460.2	1446.5
45°	8146.1	7535.8	4669.1	2497.1	2083.0	1989.5	1764.7	1552.6	1447.6	1378.0	1366.6
47.5°	8937.8	8040.0	4330.3	2174.3	1899.4	1836.6	1613.0	1476.1	1392.9	1338.1	1327.8
50°	9910.9	8609.3	3971.0	1909.6	1714.6	1653.0	1541.2	1433.9	1367.8	1325.6	1315.3
52.5°	11008.3	9251.5	3712.0	1700.9	1561.7	1517.2	1503.5	1411.1	1357.5	1325.6	1315.3
55°	12190.1	9905.2	3432.5	1525.2	1429.4	1441.9	1478.4	1413.4	1376.9	1338.1	1323.3
57.5°	13373.0	10580.5	3121.1	1376.9	1324.4	1386.0	1461.3	1418.0	1387.2	1349.5	1335.8
60°	14308.5	11008.3	2638.6	1252.5	1241.1	1324.4	1420.2	1383.7	1343.8	1344.9	1342.7
62.5°	14745.4	10985.4	2105.8	1141.9	1157.9	1241.1	1354.1	1330.1	1297.0	1341.5	1344.9
65°	14500.1	10437.9	1639.3	1041.5	1068.9	1154.4	1285.6	1303.9	1315.3	1400.8	1412.3
67.5°	13471.2	9372.4	1269.7	953.7	987.9	1095.1	1292.5	1420.2	1435.1	1525.2	1524.0
69°	12406.8	8373.1	1103.1	908.0	948.0	1110.0	1381.5	1494.4	1438.5	1534.3	1520.6
70°	11514.8	7582.6	1014.1	877.2	929.7	1136.2	1440.8	1493.2	1421.4	1503.5	1480.7
72.5°	8868.2	5455.1	860.1	820.2	868.1	1087.1	1457.9	1460.2	1381.5	1397.4	1358.6
75°	6082.5	3447.4	750.6	742.6	774.6	979.9	1403.1	1395.1	1277.6	1254.8	1222.9
77.5°	3353.8	1751.1	637.7	668.5	690.2	868.1	1275.4	1264.0	1167.0	1119.1	1107.7
80°	1293.6	766.6	538.4	594.3	608.0	751.8	1117.9	1107.7	1026.7	965.1	948.0
82.5°	488.2	401.5	444.9	514.5	509.9	620.6	946.8	941.1	862.4	772.3	744.9
85°	225.9	240.7	352.5	424.4	391.3	459.7	757.5	767.7	671.9	564.7	564.7
87.5°	95.8	134.6	249.8	320.6	263.5	310.3	555.5	530.5	487.1	337.7	317.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



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 [^] /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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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 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			

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)