

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: P317937

Luminaire Tested: **GLEON-SA3D-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317937
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-SA3D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 19246 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

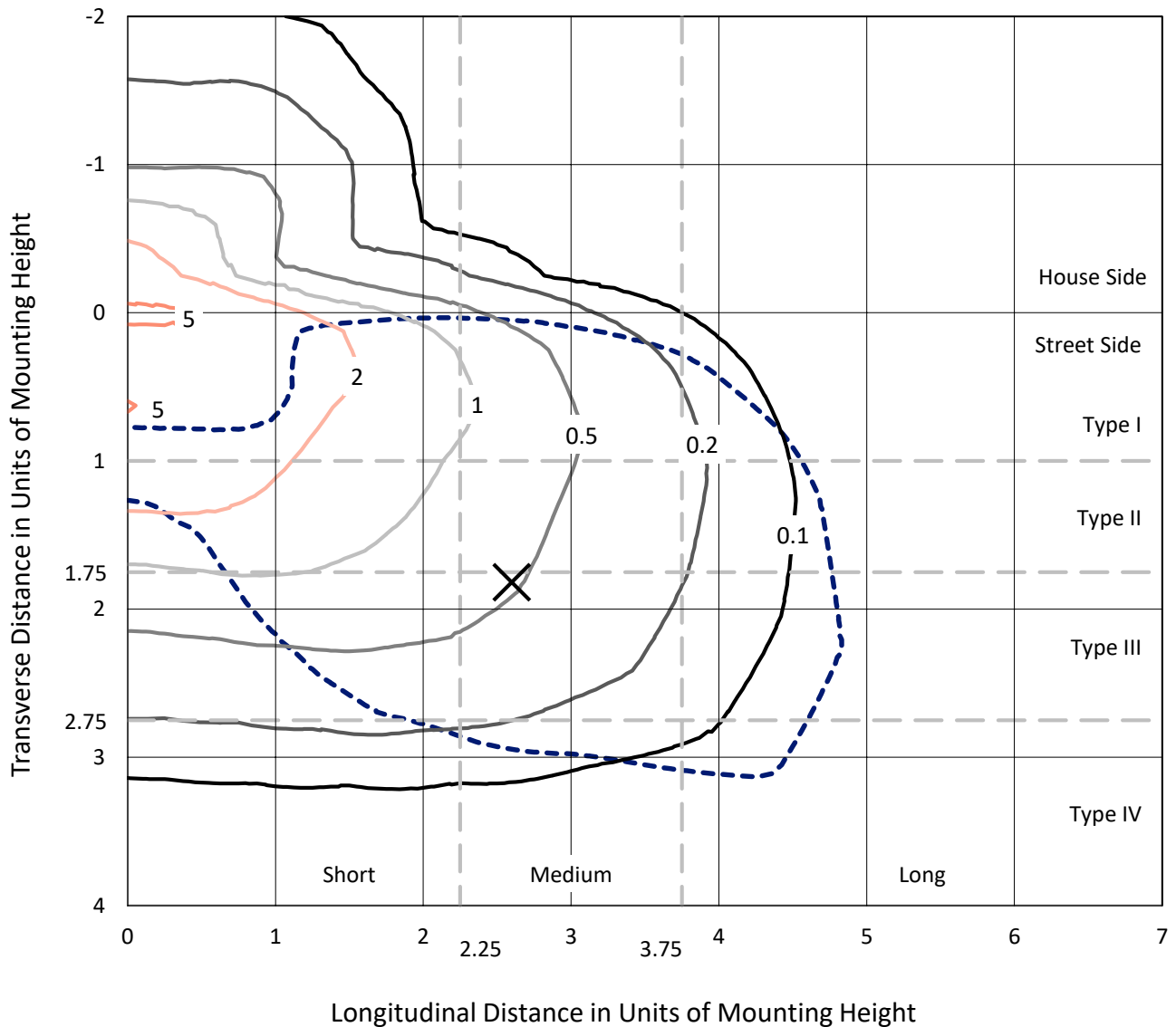
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

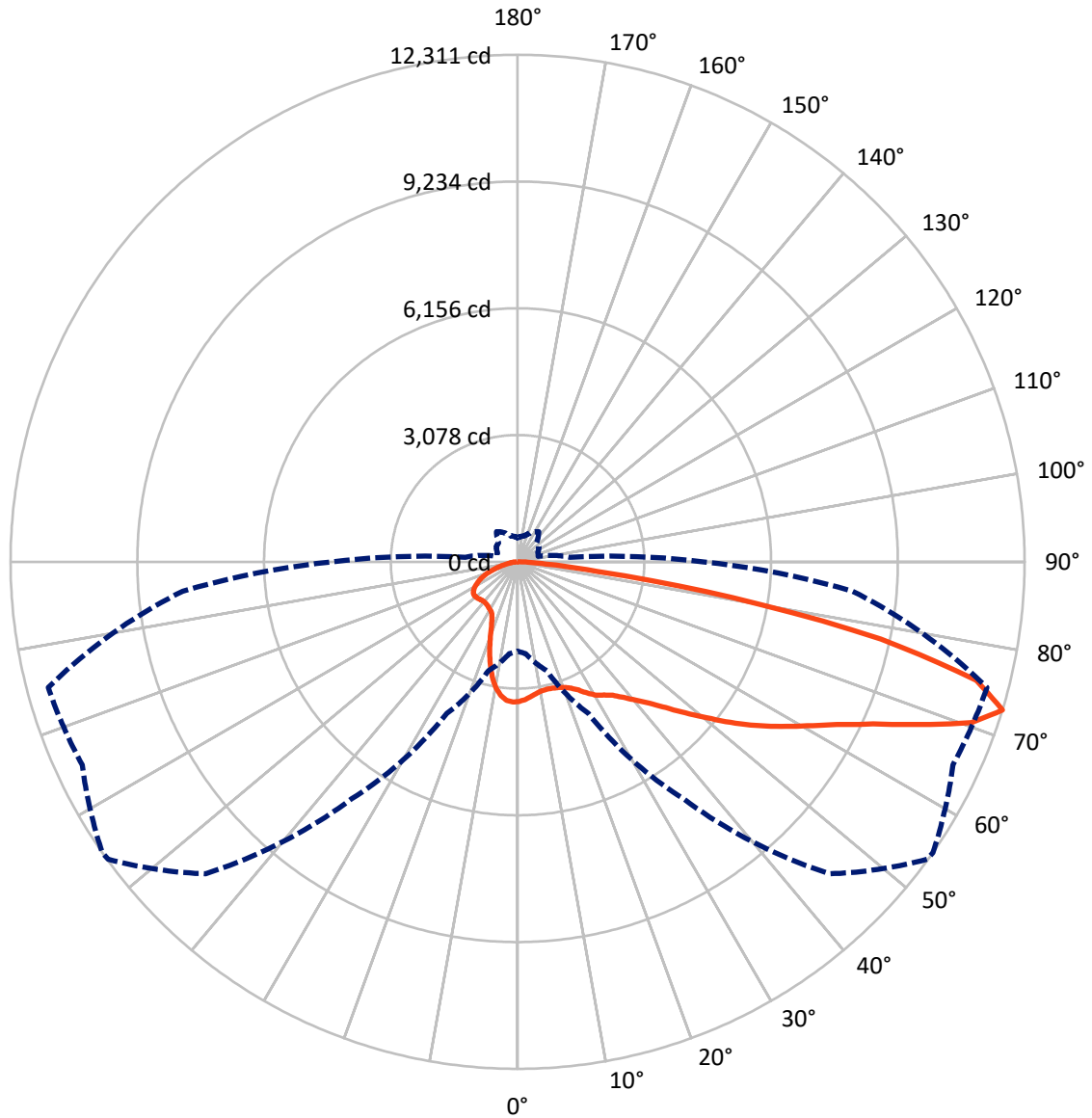
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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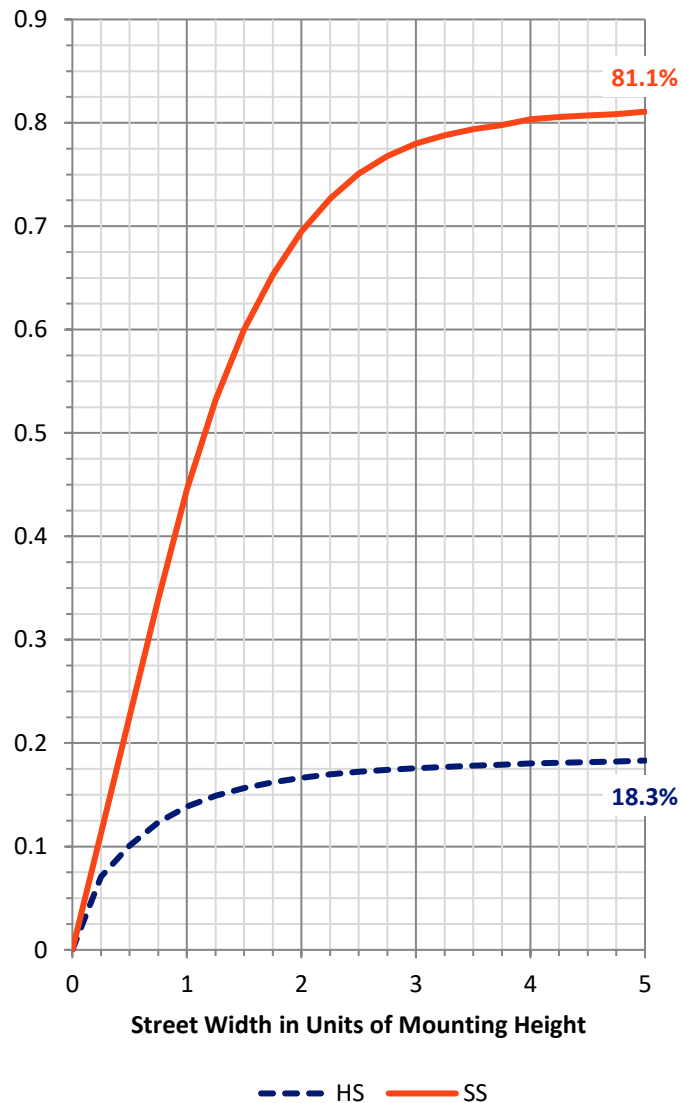
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3577.2	0.0	3577.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15668.8	0.0	15668.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	19246.0	0.0	19246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	1.6
10°-20°	817.8	4.2
20°-30°	1348.3	7.0
30°-40°	1994.5	10.4
40°-50°	2784.0	14.5
50°-60°	3624.8	18.8
60°-70°	4454.8	23.1
70°-80°	3492.0	18.1
80°-90°	422.6	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°	19246.0	100.0
0°-180°	19246.0	100.0

Coefficient of Utilization



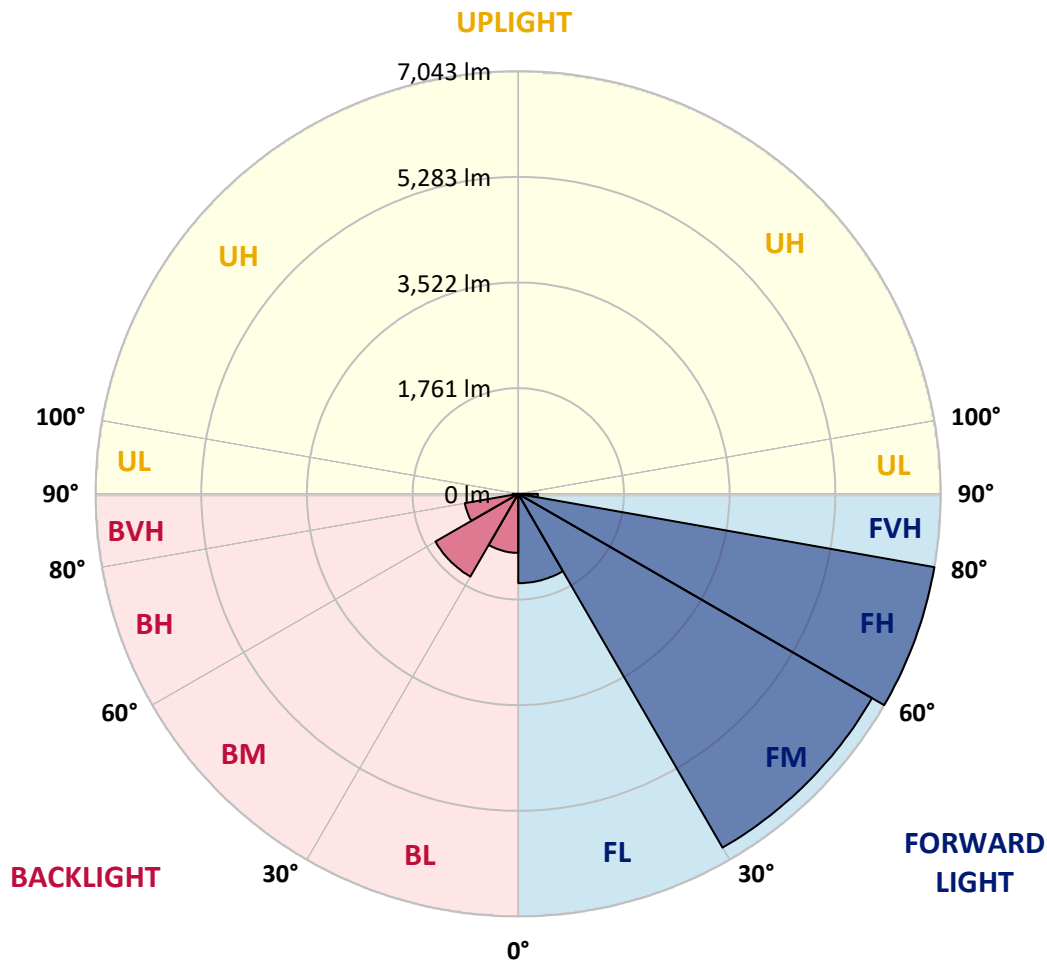
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.1	7.7			
FM (30°-60°)	6809.6	35.4			
FH (60°-80°)	7043.4	36.6			G3/7500
FVH (80°-90°)	326.7	1.7			G3/500
BL (0°-30°)	984.2	5.1	B2/1000		
BM (30°-60°)	1593.7	8.3	B2/2500		
BH (60°-80°)	903.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	95.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6
2.5°	3284.1	3276.3	3286.0	3299.7	3314.6	3334.8	3346.5	3351.7	3371.8	3379.6	3396.5
5°	3132.0	3128.1	3144.3	3167.7	3200.9	3247.7	3285.4	3292.5	3345.8	3383.5	3418.0
7.5°	3021.4	3021.4	3040.3	3068.3	3105.3	3168.4	3221.7	3231.4	3321.8	3403.0	3466.7
10°	2933.7	2936.9	2959.0	2992.2	3035.8	3102.7	3173.6	3184.6	3315.3	3448.5	3549.9
12.5°	2875.2	2883.0	2903.1	2933.0	2987.0	3068.3	3158.0	3172.9	3328.9	3513.5	3650.1
15°	2912.2	2925.2	2927.2	2939.5	2969.4	3057.9	3167.1	3182.7	3358.2	3579.8	3763.8
17.5°	3074.8	3079.3	3059.2	3033.2	3018.8	3075.4	3194.4	3210.6	3393.3	3645.5	3873.0
20°	3321.8	3319.2	3275.6	3205.4	3132.6	3141.7	3239.2	3256.1	3440.7	3703.4	3982.2
22.5°	3633.8	3624.7	3557.7	3428.4	3304.2	3252.2	3317.9	3332.2	3512.2	3785.9	4099.2
25°	4012.1	3992.0	3903.6	3730.0	3547.3	3413.4	3436.2	3449.8	3616.2	3878.2	4206.5
27.5°	4411.3	4391.1	4278.7	4068.7	3825.6	3616.9	3599.3	3611.0	3734.6	3946.5	4285.8
30°	4828.6	4807.1	4704.4	4469.1	4120.7	3827.5	3751.5	3756.0	3817.8	3983.5	4350.8
32.5°	5247.9	5227.7	5112.7	4839.6	4441.2	4053.7	3861.3	3855.5	3867.8	4021.9	4424.3
35°	5673.0	5680.8	5546.3	5244.0	4796.1	4305.3	3991.3	3979.0	3951.7	4100.5	4528.3
37.5°	6128.1	6122.9	5948.6	5632.7	5167.3	4578.3	4177.9	4175.9	4081.7	4249.4	4691.4
40°	6432.3	6435.5	6329.6	6030.5	5542.4	4880.6	4417.1	4412.6	4289.1	4472.4	4905.3
42.5°	6551.2	6572.7	6600.0	6410.2	5935.0	5231.0	4702.5	4696.0	4578.3	4792.2	5156.9
45°	6559.7	6602.6	6771.6	6747.6	6332.8	5632.1	5067.2	5049.0	4964.5	5217.3	5457.2
47.5°	6486.9	6531.1	6811.9	6948.4	6688.4	6055.3	5493.6	5479.3	5406.5	5749.1	5782.2
50°	6327.6	6369.9	6728.7	7046.6	6980.9	6462.2	5985.0	5947.3	5908.3	6363.4	6154.1
52.5°	6029.2	6110.5	6617.5	7070.0	7155.8	6823.6	6501.8	6477.1	6498.6	7011.5	6526.5
55°	5322.6	5413.6	6330.9	7050.5	7285.2	7127.2	7018.6	7017.3	7128.5	7691.4	6926.3
57.5°	4926.8	4991.1	5747.1	7017.3	7438.6	7428.8	7530.2	7542.6	7759.0	8431.8	7345.0
60°	4703.1	4770.7	5451.4	6894.5	7676.5	7818.8	8052.2	8076.9	8400.0	9251.6	7848.7
62.5°	4499.7	4573.8	5268.0	6644.2	7956.7	8376.6	8677.6	8699.7	9078.6	10094.0	8335.6
65°	4151.9	4235.7	4999.6	6479.7	8211.5	9104.0	9472.6	9487.5	9858.1	10976.8	8708.1
67.5°	3660.5	3737.2	4493.2	6116.4	8400.0	9987.4	10529.6	10538.0	10631.0	11600.2	8898.6
70°	3086.5	3115.7	3771.6	5366.2	8177.0	10813.6	11688.0	11689.9	11335.6	11999.3	8867.4
72.5°	2168.6	2237.5	2738.0	4062.2	7027.1	10712.9	12289.3	12311.4	11663.3	11797.8	8158.8
75°	1330.0	1402.8	1717.4	2461.8	4458.1	8425.3	11354.5	11507.9	11049.0	10519.2	6665.0
77.5°	889.3	916.6	1120.7	1435.3	2019.7	4847.5	8729.6	9018.2	9178.8	7671.3	4262.4
80°	496.0	548.0	743.0	891.9	898.4	1926.1	5234.2	5301.8	5106.8	3054.6	1315.1
82.5°	262.6	291.2	496.0	523.9	490.1	644.9	1950.8	1952.8	1631.6	819.1	390.7
85°	203.5	227.5	340.0	319.8	250.3	286.0	643.6	678.7	555.1	335.4	127.4
87.5°	101.4	126.1	230.8	202.8	98.2	81.9	230.1	245.7	219.1	131.3	46.2
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°	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6	3394.6
2.5°	3403.0	3408.9	3416.0	3408.2	3405.6	3395.2	3377.7	3373.8	3364.7	3365.3	3370.5
5°	3432.9	3442.7	3438.8	3408.9	3373.1	3323.1	3271.1	3226.9	3197.6	3195.7	3193.7
7.5°	3490.1	3496.6	3466.1	3380.9	3280.8	3165.1	3055.9	2960.3	2902.5	2888.2	2884.9
10°	3579.8	3578.5	3494.7	3323.1	3123.5	2916.8	2741.3	2608.7	2531.3	2508.6	2502.7
12.5°	3680.0	3665.0	3504.4	3217.8	2901.2	2614.5	2392.2	2244.6	2164.0	2138.0	2131.5
15°	3783.3	3746.3	3480.4	3060.5	2628.2	2288.8	2055.5	1919.0	1875.4	1861.1	1858.5
17.5°	3879.5	3808.0	3411.5	2847.2	2316.8	1964.5	1782.4	1727.8	1738.2	1757.1	1757.7
20°	3973.8	3849.6	3301.0	2578.1	1988.5	1697.3	1635.5	1675.8	1725.2	1763.6	1768.8
22.5°	4066.7	3878.9	3158.6	2267.4	1694.7	1547.1	1590.7	1664.1	1720.7	1762.3	1769.4
25°	4144.7	3886.0	2962.3	1935.9	1490.6	1490.6	1569.2	1638.8	1694.7	1735.6	1742.8
27.5°	4173.3	3837.9	2685.4	1629.0	1387.9	1464.6	1539.3	1597.2	1644.6	1688.2	1696.0
30°	4184.4	3748.9	2365.5	1382.7	1345.6	1436.6	1499.0	1548.4	1593.3	1634.2	1641.4
32.5°	4186.3	3641.6	2026.2	1242.9	1316.4	1407.4	1449.0	1492.5	1540.6	1556.9	1559.5
35°	4198.7	3514.8	1668.7	1171.4	1289.1	1380.1	1413.2	1444.4	1366.4	1372.3	1377.5
37.5°	4234.4	3389.4	1369.7	1131.1	1271.5	1365.8	1405.4	1292.3	1231.2	1216.9	1215.0
40°	4301.4	3255.5	1148.0	1098.6	1265.0	1372.9	1355.4	1206.5	1101.2	1022.5	1010.8
42.5°	4394.4	3111.2	1006.3	1077.1	1269.6	1407.4	1285.8	1123.9	949.1	898.4	891.9
45°	4499.0	2959.7	929.6	1062.2	1285.2	1434.0	1271.5	1014.1	878.2	839.9	836.6
47.5°	4600.4	2774.4	889.9	1055.7	1306.6	1412.6	1211.1	980.3	844.4	824.3	826.2
50°	4716.8	2607.4	865.9	1048.5	1325.5	1398.9	1142.8	962.7	831.4	856.1	882.1
52.5°	4814.9	2434.5	844.4	1034.2	1332.6	1374.9	1125.2	966.0	831.4	878.9	903.6
55°	4931.3	2303.8	819.7	1004.3	1319.0	1306.6	1112.9	985.5	841.2	811.3	813.9
57.5°	5081.5	2260.9	792.4	957.5	1273.5	1207.1	1107.0	1004.3	835.3	816.5	823.0
60°	5289.5	2306.4	781.4	896.4	1202.6	1129.1	1107.7	994.6	794.4	761.9	762.5
62.5°	5487.8	2357.1	780.7	858.1	1115.5	1059.6	1092.7	962.7	773.6	754.7	761.9
65°	5552.8	2305.7	749.5	815.2	1017.3	976.4	1065.4	928.9	758.0	729.4	728.1
67.5°	5465.7	2146.5	686.5	745.6	904.9	879.5	1029.7	888.6	733.3	709.9	706.0
70°	5206.9	1790.9	608.5	654.0	776.8	770.3	973.1	841.8	700.1	680.0	663.1
72.5°	4510.7	1276.1	512.9	544.1	632.5	653.3	895.1	780.7	653.3	609.8	583.7
75°	3704.7	944.5	421.2	427.7	480.4	536.9	787.9	709.2	598.0	523.9	503.8
77.5°	2268.7	577.9	335.4	338.0	344.5	428.4	648.8	629.3	527.8	436.8	422.5
80°	734.6	315.3	242.5	254.8	235.3	314.0	501.8	535.6	453.1	365.3	349.7
82.5°	279.5	184.0	163.8	172.3	163.2	210.6	366.0	429.0	371.2	300.3	244.4
85°	135.2	104.0	96.9	108.6	100.8	107.9	234.0	315.9	281.5	195.7	182.0
87.5°	48.1	46.2	37.1	50.1	42.9	38.4	71.5	159.3	185.9	134.6	120.3
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



CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

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)