

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: P318578

Luminaire Tested: **GLEON-SA4D-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318578
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-SA4D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24878 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

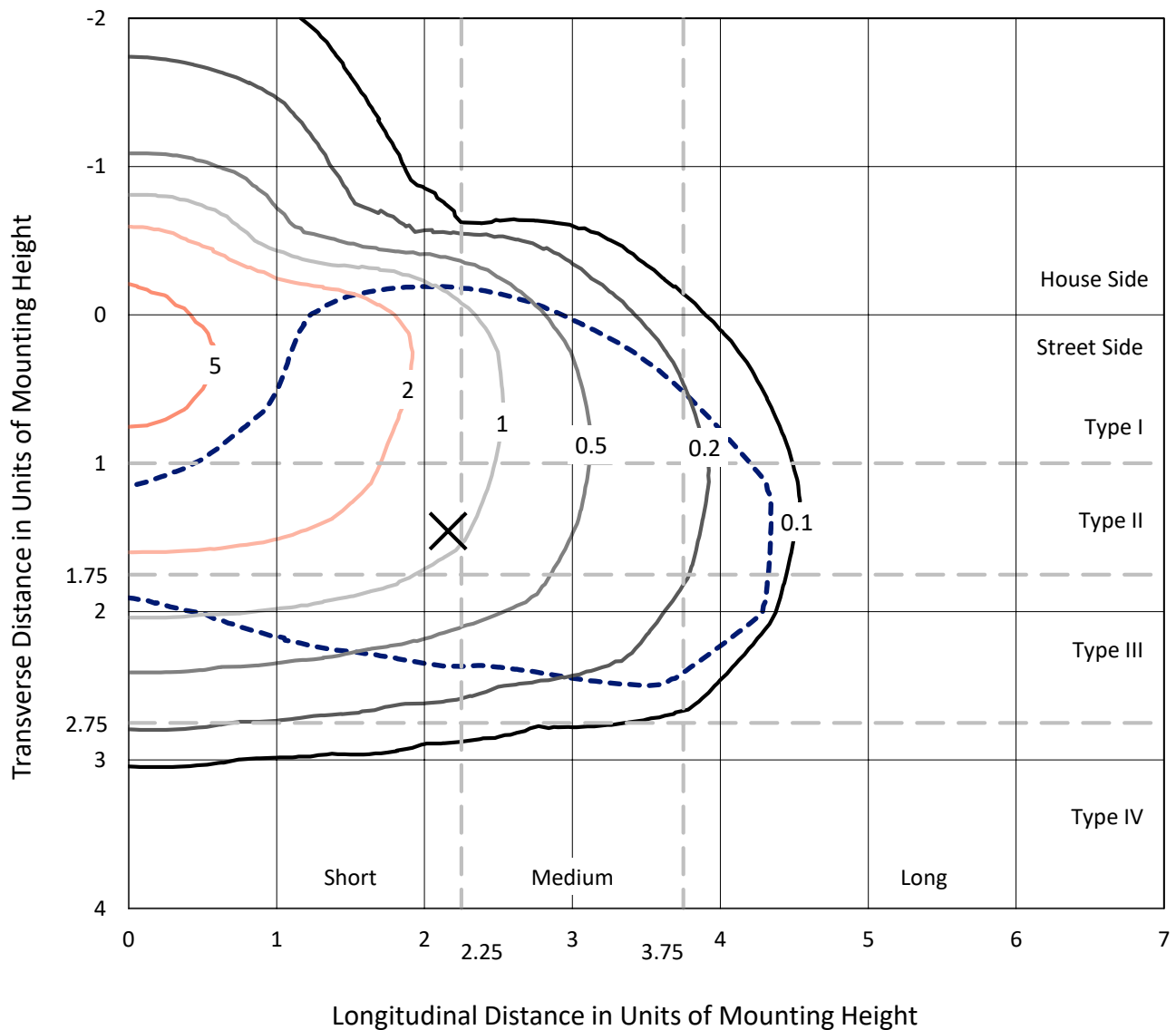
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

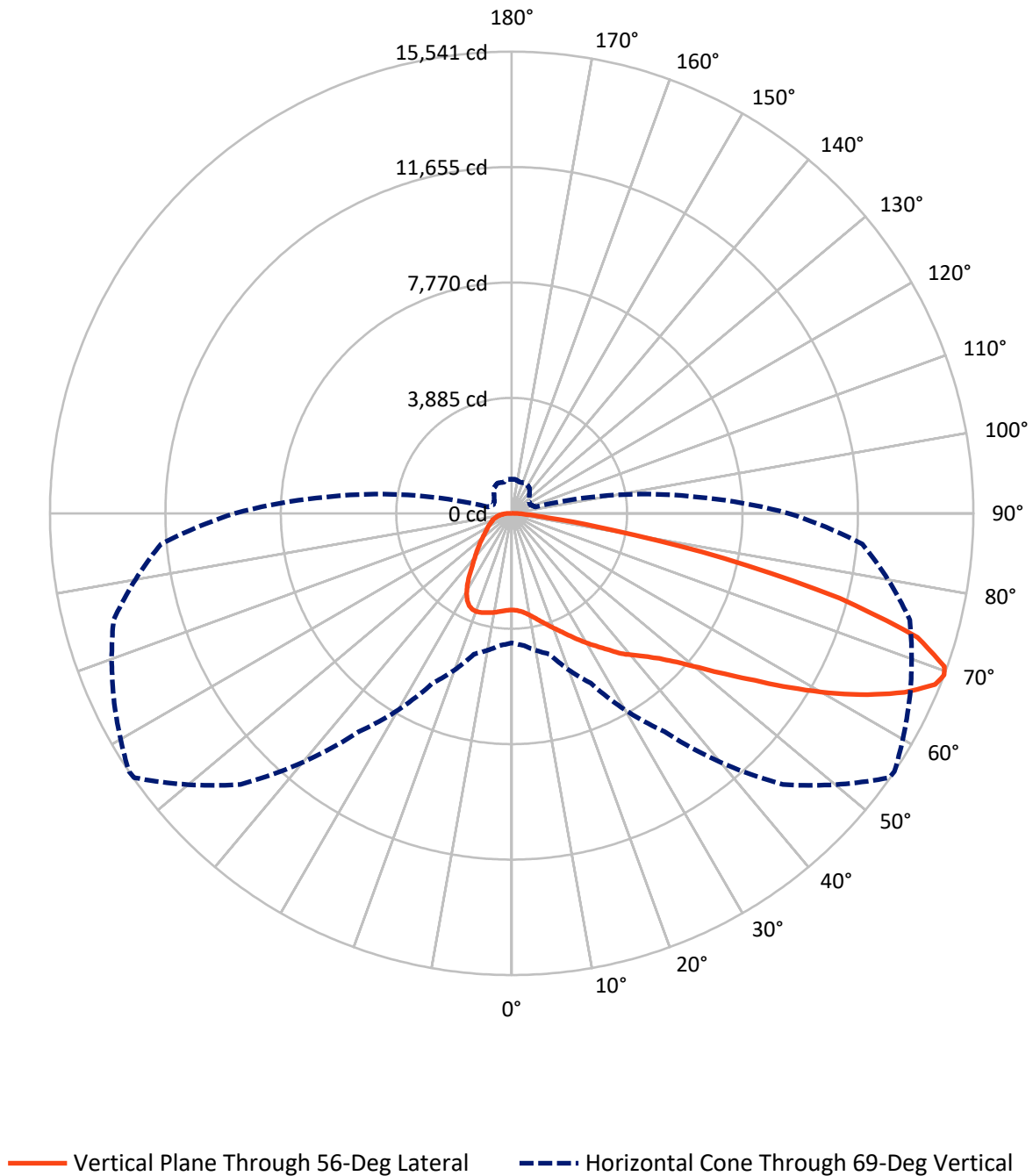
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA4D-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5540.3	0.0	5540.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	19337.7	0.0	19337.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	24878.0	0.0	24878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	1.3
10°-20°	1027.2	4.1
20°-30°	1793.1	7.2
30°-40°	2575.7	10.4
40°-50°	3564.6	14.3
50°-60°	5222.7	21.0
60°-70°	6367.4	25.6
70°-80°	3520.3	14.2
80°-90°	487.6	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°	24878.0	100.0
0°-180°	24878.0	100.0

Coefficient of Utilization



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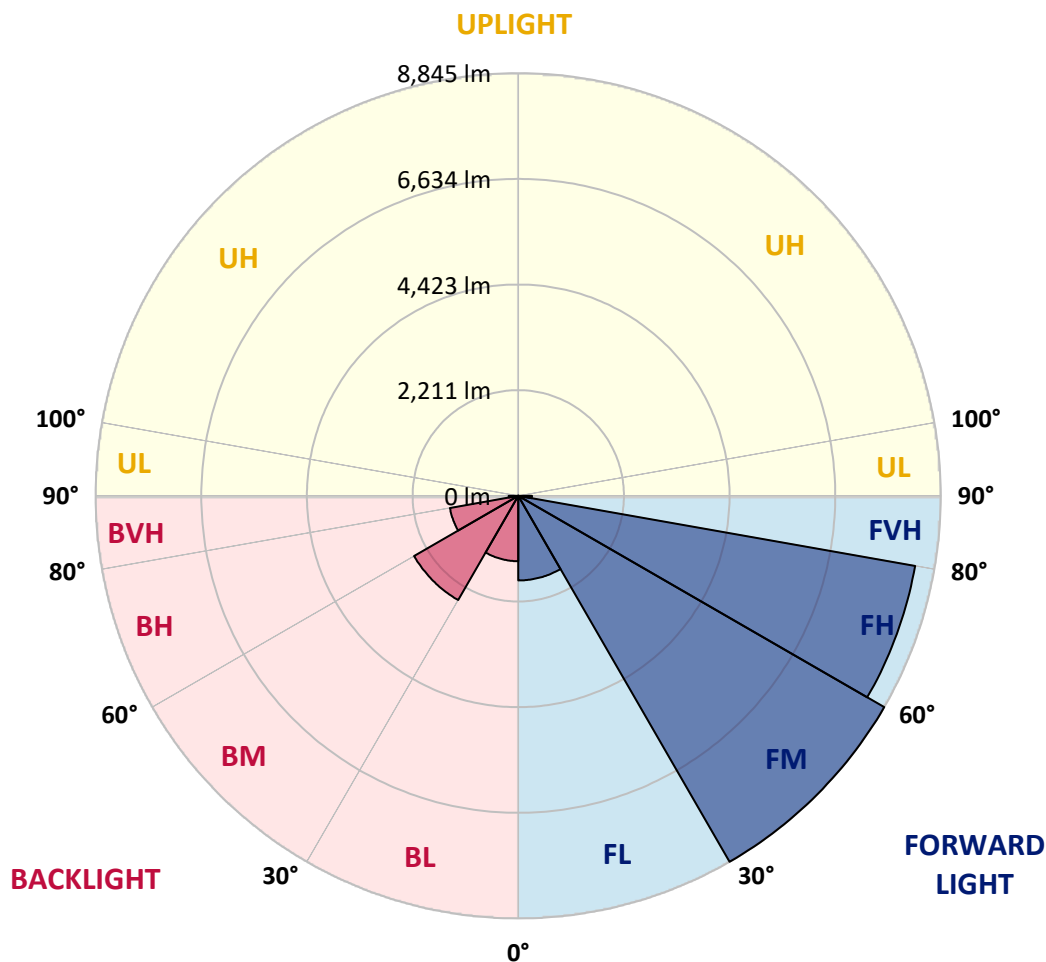
CATALOG NUMBER: GLEON-SA4D-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1770.6	7.1			
FM	(30°-60°)	8845.1	35.6			
FH	(60°-80°)	8434.9	33.9			G4/12000
FVH	(80°-90°)	287.2	1.2			G3/500
BL	(0°-30°)	1369.1	5.5	B3/2500		
BM	(30°-60°)	2517.9	10.1	B3/5000		
BH	(60°-80°)	1452.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	200.4	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4
2.5°	3273.0	3276.4	3273.8	3280.7	3273.0	3278.1	3273.8	3273.8	3271.3	3263.6	3255.0
5°	3324.4	3331.3	3327.0	3333.8	3324.4	3326.1	3318.4	3318.4	3310.7	3294.4	3277.3
7.5°	3405.0	3412.7	3409.3	3416.1	3403.3	3403.3	3393.0	3392.1	3376.7	3350.1	3330.4
10°	3501.0	3511.2	3507.8	3518.1	3507.8	3511.2	3501.0	3501.0	3480.4	3442.7	3417.8
12.5°	3640.7	3653.5	3644.1	3643.2	3638.9	3645.8	3637.2	3635.5	3616.7	3565.2	3531.0
15°	3827.5	3841.2	3821.5	3819.8	3795.8	3793.2	3793.2	3790.6	3778.6	3716.9	3660.4
17.5°	4042.6	4046.9	4029.7	4002.3	3971.5	3951.8	3949.2	3956.0	3956.0	3884.1	3794.1
20°	4253.4	4261.1	4247.4	4216.6	4177.2	4148.0	4127.5	4141.2	4140.3	4054.6	3926.9
22.5°	4483.1	4501.1	4480.5	4441.1	4394.8	4362.3	4326.3	4338.3	4339.1	4233.7	4057.2
25°	4780.5	4764.2	4751.4	4695.7	4629.7	4596.2	4562.8	4574.8	4571.4	4426.6	4191.7
27.5°	5043.6	5047.0	5029.9	4970.8	4894.5	4820.8	4819.1	4826.8	4813.9	4627.1	4318.6
30°	5349.6	5351.3	5327.3	5274.2	5191.0	5095.9	5073.6	5086.5	5059.0	4817.4	4452.3
32.5°	5653.8	5662.4	5635.8	5571.5	5504.7	5389.0	5344.4	5353.0	5284.4	5011.9	4590.2
35°	5920.4	5932.4	5923.8	5880.9	5808.1	5708.7	5655.5	5650.4	5565.5	5250.2	4772.8
37.5°	6192.0	6203.2	6193.7	6157.8	6128.6	6023.2	5994.9	5994.9	5847.5	5493.6	5005.0
40°	6471.4	6488.6	6477.4	6427.7	6402.9	6354.9	6287.2	6270.9	6111.5	5785.8	5383.9
42.5°	6731.1	6753.4	6798.0	6768.8	6718.2	6725.1	6588.8	6580.3	6463.7	6217.7	5859.5
45°	7099.6	7132.2	7207.6	7185.3	7175.0	7137.3	6975.4	6967.6	6923.1	6798.8	6450.0
47.5°	7501.6	7546.1	7682.4	7686.7	7797.2	7726.1	7505.9	7479.3	7489.6	7494.7	7170.8
50°	7871.8	7920.7	8144.3	8249.8	8510.3	8525.7	8173.5	8149.5	8189.8	8308.0	8010.6
52.5°	8167.5	8229.2	8508.6	8834.3	9280.8	9407.6	8995.4	8977.4	9007.4	9211.3	8960.2
55°	8384.3	8451.2	8755.4	9348.5	10061.5	10285.2	9941.5	9924.4	9943.2	10202.9	9993.0
57.5°	8434.9	8451.2	8892.5	9694.7	10720.6	11257.9	11099.4	11065.1	10972.5	11198.8	11132.8
60°	8197.5	8262.6	8779.4	9816.4	11230.5	12216.9	12309.5	12266.7	12007.0	12192.1	12139.0
62.5°	7715.8	7832.4	8356.9	9631.3	11430.2	13000.3	13496.5	13445.1	12997.7	13117.7	12862.3
65°	6929.1	6978.8	7529.9	8992.8	11176.5	13501.6	14554.9	14529.2	13966.1	13778.5	12996.0
67.5°	5521.8	5615.3	6083.2	7658.4	10138.6	13442.5	15373.4	15370.8	14598.6	14023.6	12522.0
69°	4362.3	4459.1	4904.8	6308.6	8971.4	12901.7	15510.5	15540.5	14776.9	13874.4	11845.0
70°	3477.8	3590.1	3896.1	5313.6	7935.2	12188.7	15396.5	15450.5	14742.6	13628.5	11220.2
72.5°	1480.1	1570.9	1788.6	2739.1	4836.2	9101.6	14077.6	14281.5	13948.1	12473.2	9273.1
75°	646.2	674.5	773.0	1116.7	2146.9	4953.6	11028.2	11405.3	11926.4	10543.2	6907.7
77.5°	473.1	485.1	539.1	655.6	963.3	1870.9	7091.9	7311.3	8601.1	7672.1	4237.2
80°	366.0	374.5	416.5	481.7	629.1	756.8	3234.4	3423.0	4836.2	3940.6	1764.6
82.5°	291.4	297.4	326.5	354.8	434.5	458.5	1073.9	1191.3	1785.2	1088.4	467.1
85°	270.8	277.7	288.0	258.8	278.5	269.1	464.5	485.9	539.1	427.7	195.4
87.5°	122.6	144.8	285.4	201.4	148.3	118.3	190.3	198.8	223.7	224.5	86.6
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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CATALOG NUMBER: GLEON-SA4D-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4
2.5°	3260.1	3257.6	3261.9	3251.6	3264.4	3263.6	3259.3	3261.0	3269.6	3268.7	3269.6
5°	3279.8	3278.1	3283.3	3275.6	3291.0	3296.1	3297.0	3304.7	3314.1	3316.7	3316.7
7.5°	3329.6	3329.6	3332.1	3321.8	3332.1	3331.3	3327.0	3334.7	3344.1	3345.0	3344.1
10°	3415.3	3416.1	3411.8	3385.3	3376.7	3353.6	3332.1	3333.0	3345.0	3354.4	3357.0
12.5°	3523.2	3519.8	3501.0	3452.1	3416.1	3369.0	3346.7	3345.8	3357.8	3365.6	3368.1
15°	3646.7	3637.2	3588.4	3508.7	3445.3	3399.0	3363.0	3354.4	3347.6	3339.0	3339.8
17.5°	3763.2	3741.8	3660.4	3549.8	3483.0	3421.3	3351.8	3296.1	3257.6	3235.3	3228.4
20°	3881.5	3839.5	3722.1	3588.4	3503.5	3391.3	3257.6	3144.4	3074.2	3041.6	3035.6
22.5°	3989.5	3921.8	3779.5	3628.7	3487.2	3290.1	3080.2	2915.6	2817.9	2774.2	2777.6
25°	4094.9	4000.6	3839.5	3656.9	3405.0	3111.9	2833.3	2631.1	2518.0	2469.1	2467.4
27.5°	4187.4	4080.3	3904.6	3633.8	3251.6	2858.2	2541.1	2344.0	2249.7	2207.7	2200.8
30°	4293.7	4180.6	3991.2	3545.5	3027.0	2565.1	2255.7	2116.9	2050.0	2008.0	2000.3
32.5°	4423.1	4316.9	4062.3	3385.3	2739.9	2259.1	2032.9	1936.0	1875.2	1828.0	1819.5
35°	4611.7	4496.8	4080.3	3155.6	2424.5	2017.4	1869.2	1769.8	1687.5	1626.6	1620.6
37.5°	4848.2	4722.2	4039.2	2858.2	2118.6	1860.6	1732.9	1610.4	1503.2	1417.5	1403.8
40°	5189.3	4999.0	3925.2	2515.4	1893.2	1739.8	1600.1	1460.4	1327.5	1227.3	1207.6
42.5°	5599.0	5323.9	3750.4	2174.3	1727.8	1617.2	1468.1	1295.0	1168.1	1097.0	1086.7
45°	6120.0	5661.5	3507.8	1876.0	1564.9	1494.7	1325.8	1166.4	1087.6	1035.3	1026.7
47.5°	6714.8	6040.3	3253.3	1633.5	1427.0	1379.8	1211.8	1109.0	1046.4	1005.3	997.6
50°	7445.9	6468.0	2983.3	1434.7	1288.1	1241.8	1157.8	1077.3	1027.6	995.9	988.2
52.5°	8270.3	6950.5	2788.8	1277.8	1173.3	1139.8	1129.6	1060.1	1019.9	995.9	988.2
55°	9158.2	7441.6	2578.8	1145.8	1073.9	1083.3	1110.7	1061.9	1034.4	1005.3	994.2
57.5°	10046.9	7948.9	2344.8	1034.4	995.0	1041.3	1097.9	1065.3	1042.1	1013.9	1003.6
60°	10749.7	8270.3	1982.3	941.0	932.4	995.0	1067.0	1039.6	1009.6	1010.4	1008.7
62.5°	11078.0	8253.2	1582.1	857.9	869.9	932.4	1017.3	999.3	974.4	1007.9	1010.4
65°	10893.7	7841.8	1231.6	782.5	803.0	867.3	965.9	979.6	988.2	1052.4	1061.0
67.5°	10120.7	7041.3	953.9	716.5	742.2	822.7	971.0	1067.0	1078.1	1145.8	1145.0
69°	9321.0	6290.6	828.7	682.2	712.2	833.9	1037.9	1122.7	1080.7	1152.7	1142.4
70°	8650.8	5696.7	761.9	659.1	698.5	853.6	1082.4	1121.9	1067.9	1129.6	1112.4
72.5°	6662.5	4098.3	646.2	616.2	652.2	816.7	1095.3	1097.0	1037.9	1049.9	1020.7
75°	4569.7	2589.9	563.9	557.9	581.9	736.2	1054.1	1048.1	959.9	942.7	918.7
77.5°	2519.7	1315.5	479.1	502.2	518.5	652.2	958.2	949.6	876.7	840.7	832.2
80°	971.9	575.9	404.5	446.5	456.8	564.8	839.9	832.2	771.3	725.0	712.2
82.5°	366.8	301.7	334.2	386.5	383.1	466.2	711.3	707.0	647.9	580.2	559.6
85°	169.7	180.8	264.8	318.8	294.0	345.4	569.1	576.8	504.8	424.2	424.2
87.5°	72.0	101.1	187.7	240.8	198.0	233.1	417.4	398.5	366.0	253.7	238.3
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 ^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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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)