

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: P323051

Luminaire Tested: **GLEON-SA7C-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28815 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

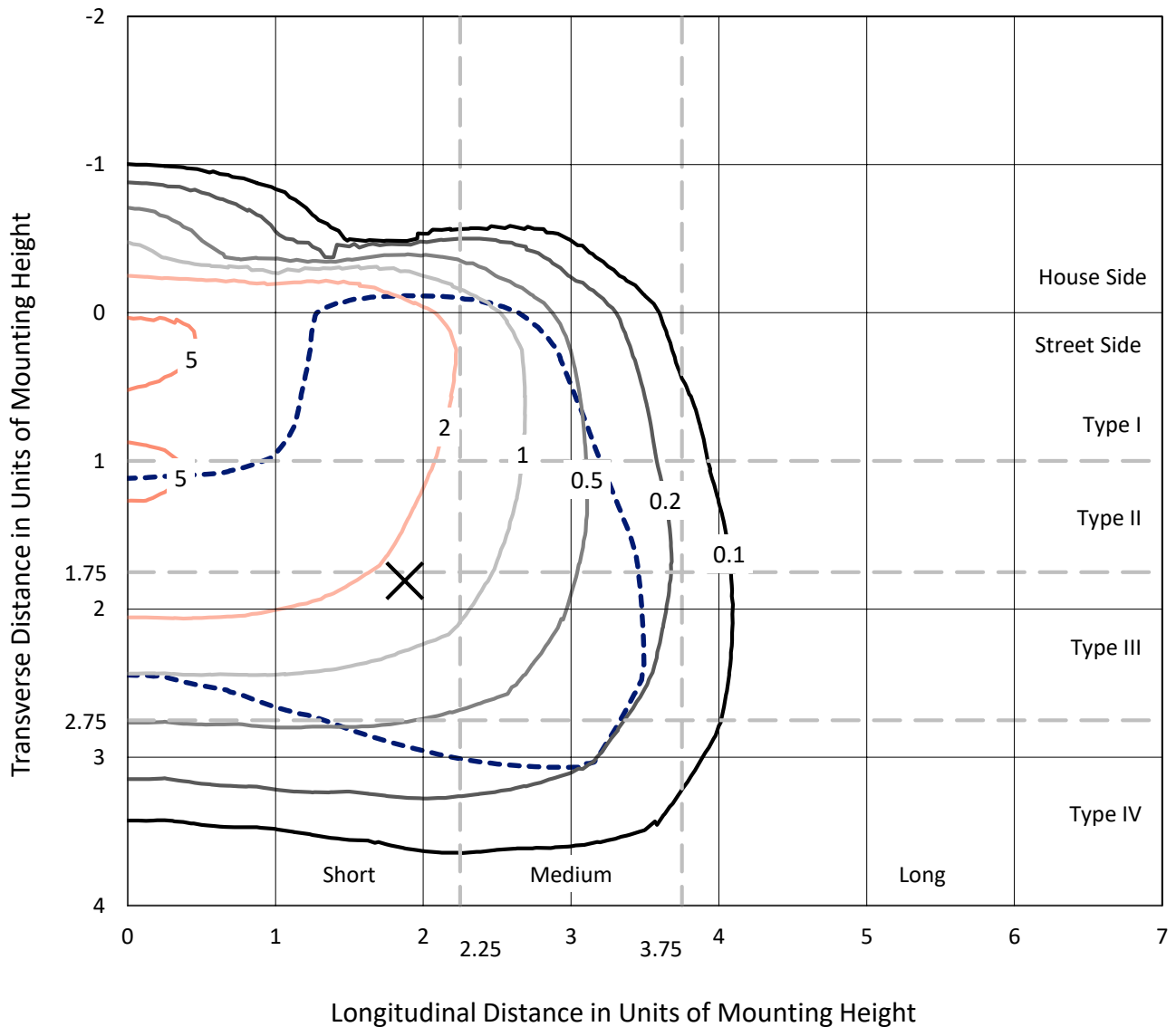
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323051
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Iso-Footcandle Lines of Horizontal Illumination

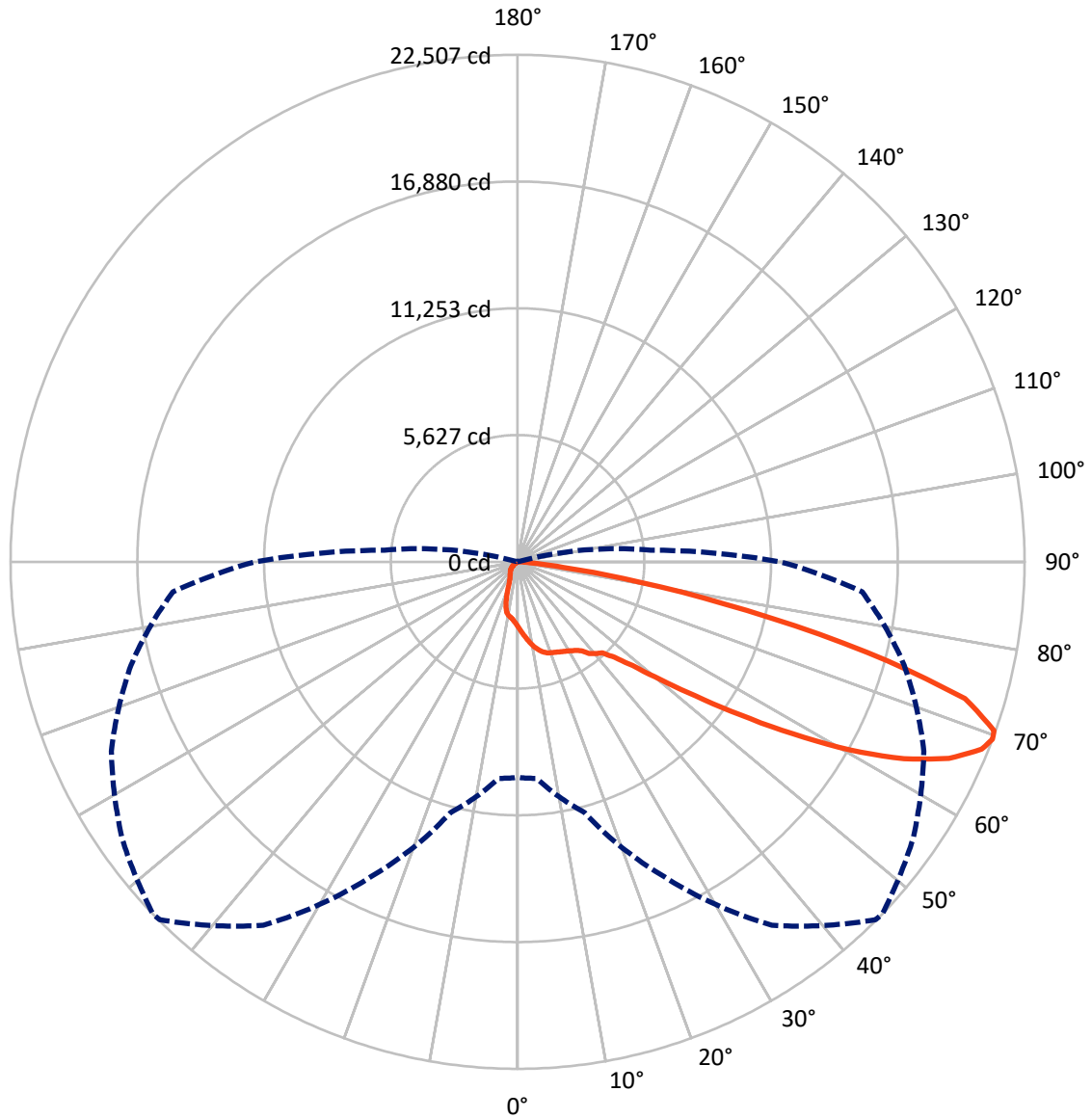
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2957.2	0.0	2957.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25857.8	0.0	25857.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	28815.0	0.0	28815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.4	1.0
10°-20°	871.8	3.0
20°-30°	1371.1	4.8
30°-40°	1966.1	6.8
40°-50°	3398.2	11.8
50°-60°	6713.5	23.3
60°-70°	9382.7	32.6
70°-80°	4532.9	15.7
80°-90°	291.4	1.0
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°	28815.0	100.0
0°-180°	28815.0	100.0

Coefficient of Utilization

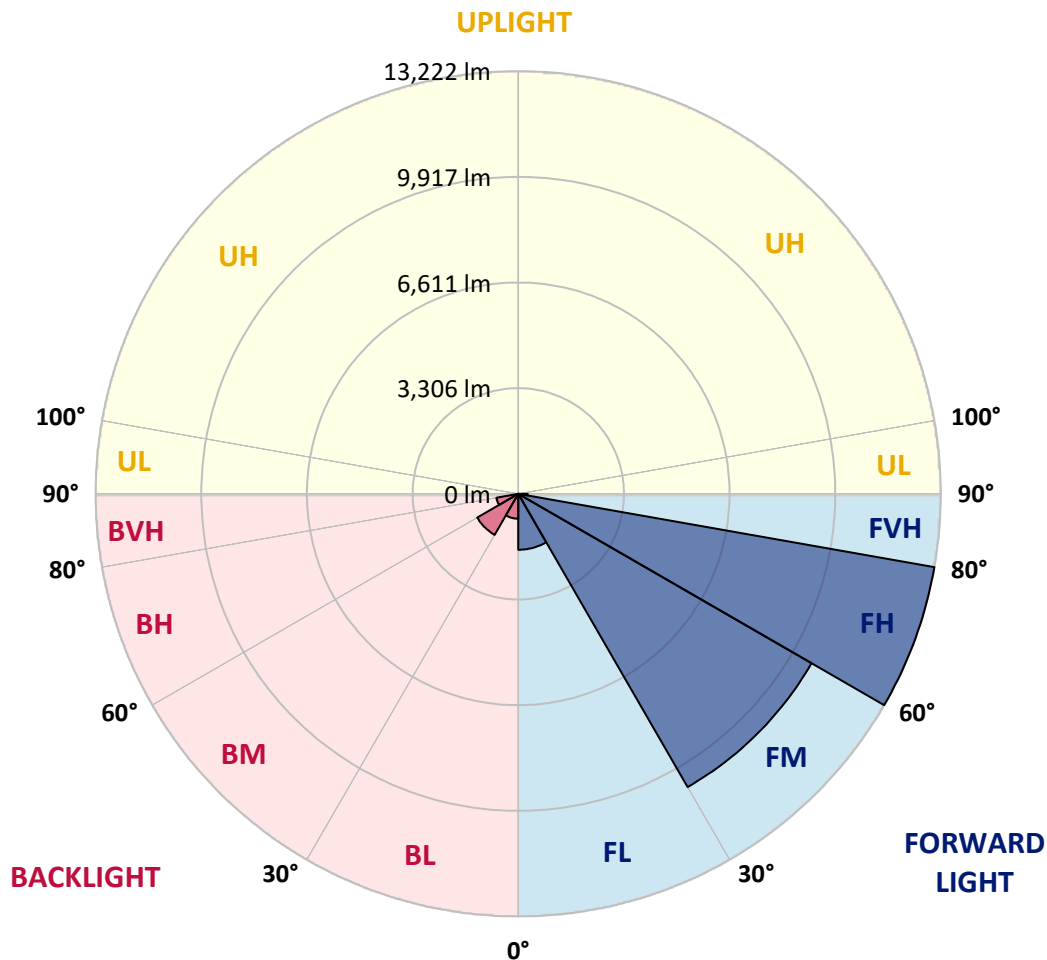


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1750.9	6.1			
FM (30°-60°)	10595.9	36.8			
FH (60°-80°)	13222.1	45.9			G5
FVH (80°-90°)	288.9	1.0			G3/500
BL (0°-30°)	779.4	2.7	B2/1000		
BM (30°-60°)	1481.9	5.1	B2/2500		
BH (60°-80°)	693.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2
2.5°	3207.3	3203.3	3184.4	3176.3	3130.3	3103.3	3092.5	3058.7	3010.1	2961.5	2907.4
5°	3572.1	3570.8	3535.7	3501.9	3415.4	3334.3	3319.5	3241.1	3131.7	3029.0	2926.3
7.5°	3945.0	3927.4	3892.3	3827.5	3701.8	3572.1	3560.0	3449.2	3293.8	3145.2	2997.9
10°	4261.2	4250.3	4204.4	4105.8	3958.5	3811.3	3796.4	3659.9	3484.3	3301.9	3114.1
12.5°	4507.0	4498.9	4438.1	4315.2	4158.5	4005.8	3985.5	3864.0	3676.2	3472.2	3250.6
15°	4657.0	4653.0	4578.6	4447.6	4293.6	4161.2	4143.6	4036.9	3862.6	3649.1	3399.2
17.5°	4692.1	4693.5	4616.5	4484.1	4357.1	4262.5	4249.0	4167.9	4022.0	3809.9	3547.8
20°	4613.8	4630.0	4561.1	4446.2	4367.9	4317.9	4307.1	4258.5	4135.5	3935.6	3666.7
22.5°	4503.0	4511.1	4463.8	4386.8	4354.4	4363.8	4358.4	4331.4	4227.4	4043.6	3784.2
25°	4435.4	4435.4	4407.1	4342.2	4363.8	4421.9	4423.3	4417.9	4335.5	4176.0	3927.4
27.5°	4432.7	4424.6	4392.2	4343.6	4403.0	4492.2	4497.6	4534.1	4482.7	4336.8	4105.8
30°	4540.8	4531.4	4462.5	4399.0	4474.6	4570.5	4584.1	4663.8	4638.1	4511.1	4304.4
32.5°	4793.5	4759.7	4607.0	4503.0	4559.7	4674.6	4692.1	4819.1	4859.7	4725.9	4496.2
35°	5139.3	5032.6	4812.4	4700.2	4705.6	4825.9	4842.1	5028.5	5148.8	4923.2	4644.8
37.5°	5616.2	5563.5	5205.5	4905.6	4929.9	5112.3	5159.6	5362.2	5328.5	5031.2	4813.7
40°	6661.9	6579.5	6198.5	5481.1	5144.7	5344.7	5359.5	5467.6	5470.3	5275.8	5165.0
42.5°	8085.9	8052.2	7650.9	6525.5	5567.6	5500.1	5527.1	5709.5	5913.5	5791.9	5786.5
45°	9662.6	9645.0	9219.4	7911.6	6422.8	6009.4	6043.2	6287.7	6678.2	6705.2	6876.8
47.5°	10931.2	10923.1	10678.6	9458.6	7732.0	6872.7	6883.5	7142.9	7829.2	8168.3	8442.6
50°	12087.7	12126.9	11933.7	11132.5	9515.3	8225.1	8199.4	8372.3	9474.8	10030.1	10370.5
52.5°	13695.4	13750.8	13209.0	12694.3	11386.5	9903.1	9882.8	10063.8	11452.7	11868.8	11929.6
55°	15115.3	15020.8	14592.5	14443.9	13668.4	11975.5	11970.1	12129.6	13365.8	13542.7	13654.9
57.5°	15742.2	15705.7	15912.5	16252.9	16058.4	14425.0	14412.8	14291.2	15077.5	15096.4	15440.9
60°	16138.1	16182.7	16816.3	17866.0	18351.1	17060.8	16982.5	16240.8	16712.3	16670.4	17039.2
62.5°	15840.8	15928.7	17068.9	18818.5	20066.9	19361.6	19250.9	18026.8	18109.2	17964.7	18307.8
65°	14262.8	14399.3	16267.8	18638.8	20918.0	21159.9	21047.7	19603.5	19218.4	18980.6	18790.2
67.5°	11581.0	11662.1	13613.0	17075.7	20534.3	22232.6	22209.6	20985.6	20056.1	18809.1	17331.0
69°	9570.7	9650.4	11528.4	15430.1	19689.9	22462.3	22506.8	21428.7	19896.6	17766.1	15355.8
70°	8106.2	8191.3	9940.9	14019.7	18710.4	22355.5	22435.2	21386.8	19440.0	16558.2	13622.5
72.5°	4251.7	4324.7	6120.2	9658.5	15253.2	20527.6	20769.4	19579.2	16478.5	12025.5	8054.9
75°	1336.2	1378.1	2390.0	5048.8	10443.5	15961.1	16016.5	15358.5	11701.3	6614.7	3354.6
77.5°	509.3	497.2	795.8	1860.4	5279.8	10050.3	10389.4	9597.7	6140.4	2338.6	774.1
80°	274.3	275.6	413.4	770.1	2258.9	5165.0	5451.4	4651.6	2181.9	729.6	178.3
82.5°	118.9	124.3	232.4	408.0	1037.6	1905.0	2048.2	1705.0	833.6	490.4	66.2
85°	25.7	28.4	112.1	221.6	422.9	535.0	560.7	552.6	531.0	381.0	25.7
87.5°	0.0	0.0	50.0	79.7	106.7	121.6	106.7	139.2	293.2	256.7	13.5
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-SA7C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2
2.5°	2889.9	2865.5	2823.7	2777.7	2745.3	2711.5	2684.5	2672.3	2658.8	2649.4	2661.5
5°	2884.5	2837.2	2756.1	2677.7	2621.0	2575.1	2537.2	2522.4	2507.5	2496.7	2495.4
7.5°	2931.7	2865.5	2741.2	2626.4	2538.6	2476.4	2425.1	2403.5	2385.9	2377.8	2371.1
10°	3022.3	2937.1	2771.0	2621.0	2507.5	2402.1	2291.4	2206.2	2150.8	2125.2	2115.7
12.5°	3139.8	3033.1	2827.7	2649.4	2484.5	2281.9	2046.8	1844.2	1713.1	1669.9	1644.2
15°	3277.6	3145.2	2902.0	2685.9	2400.8	2030.6	1632.0	1367.2	1245.7	1221.3	1194.3
17.5°	3410.0	3264.1	2991.2	2692.6	2217.0	1622.6	1195.7	1016.0	968.7	984.9	989.0
20°	3526.2	3381.6	3079.0	2633.2	1883.3	1217.3	925.5	880.9	898.4	929.5	934.9
22.5°	3643.7	3495.1	3160.1	2476.4	1456.4	924.1	833.6	844.4	862.0	893.0	898.4
25°	3786.9	3632.9	3235.7	2188.7	1093.0	786.3	791.7	807.9	825.5	853.9	856.6
27.5°	3951.8	3807.2	3285.7	1814.4	810.6	722.8	740.4	764.7	782.2	809.3	814.7
30°	4170.6	4036.9	3301.9	1426.7	679.6	666.1	674.2	703.9	729.6	753.9	757.9
32.5°	4376.0	4263.9	3247.9	1076.8	629.6	613.4	613.4	630.9	660.7	683.6	689.0
35°	4565.1	4492.2	3074.9	787.7	591.8	564.7	551.2	551.2	570.1	589.0	594.5
37.5°	4815.1	4812.4	2795.3	628.2	555.3	524.2	495.8	474.2	467.5	471.5	474.2
40°	5243.4	5247.4	2430.5	563.4	524.2	482.3	439.1	399.9	363.4	351.3	349.9
42.5°	5912.1	5851.3	2048.2	532.3	497.2	439.1	374.2	321.5	264.8	247.2	245.9
45°	6974.0	6613.3	1642.9	503.9	468.8	390.4	309.4	237.8	191.8	178.3	178.3
47.5°	8521.0	7614.4	1272.7	472.9	431.0	335.1	233.7	171.6	140.5	133.8	135.1
50°	10120.6	8595.3	975.4	433.7	385.0	277.0	172.9	124.3	106.7	106.7	108.1
52.5°	11539.2	9314.0	760.6	391.8	328.3	217.5	131.1	97.3	89.2	87.8	89.2
55°	12867.2	9777.4	582.3	343.2	260.7	162.1	100.0	79.7	74.3	71.6	70.3
57.5°	14148.0	10007.1	436.4	277.0	189.1	117.5	79.7	67.6	62.1	58.1	56.7
60°	15000.5	9820.7	299.9	204.0	131.1	85.1	66.2	58.1	51.3	47.3	45.9
62.5°	15481.5	9311.3	193.2	147.3	93.2	63.5	52.7	48.6	39.2	35.1	35.1
65°	15286.9	8471.0	135.1	105.4	67.6	47.3	39.2	39.2	28.4	23.0	21.6
67.5°	13546.8	7156.4	102.7	78.4	48.6	35.1	29.7	33.8	17.6	10.8	10.8
69°	11655.4	5931.0	87.8	64.8	40.5	28.4	25.7	31.1	12.2	8.1	6.8
70°	10130.0	5116.4	79.7	56.7	33.8	24.3	23.0	29.7	12.2	6.8	5.4
72.5°	6060.7	2853.4	60.8	40.5	21.6	18.9	18.9	33.8	12.2	6.8	5.4
75°	2449.4	1005.2	44.6	28.4	16.2	16.2	23.0	43.2	10.8	5.4	4.1
77.5°	555.3	220.2	25.7	17.6	10.8	16.2	27.0	33.8	6.8	2.7	0.0
80°	135.1	54.0	16.2	10.8	6.8	12.2	20.3	18.9	1.4	0.0	0.0
82.5°	44.6	18.9	6.8	5.4	1.4	4.1	9.5	5.4	0.0	0.0	0.0
85°	18.9	10.8	2.7	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
87.5°	12.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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			

REPORT NUMBER: SP1-2408-195-9

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)