

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640964

Luminaire Tested: GWS-SA5E-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24863.1 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

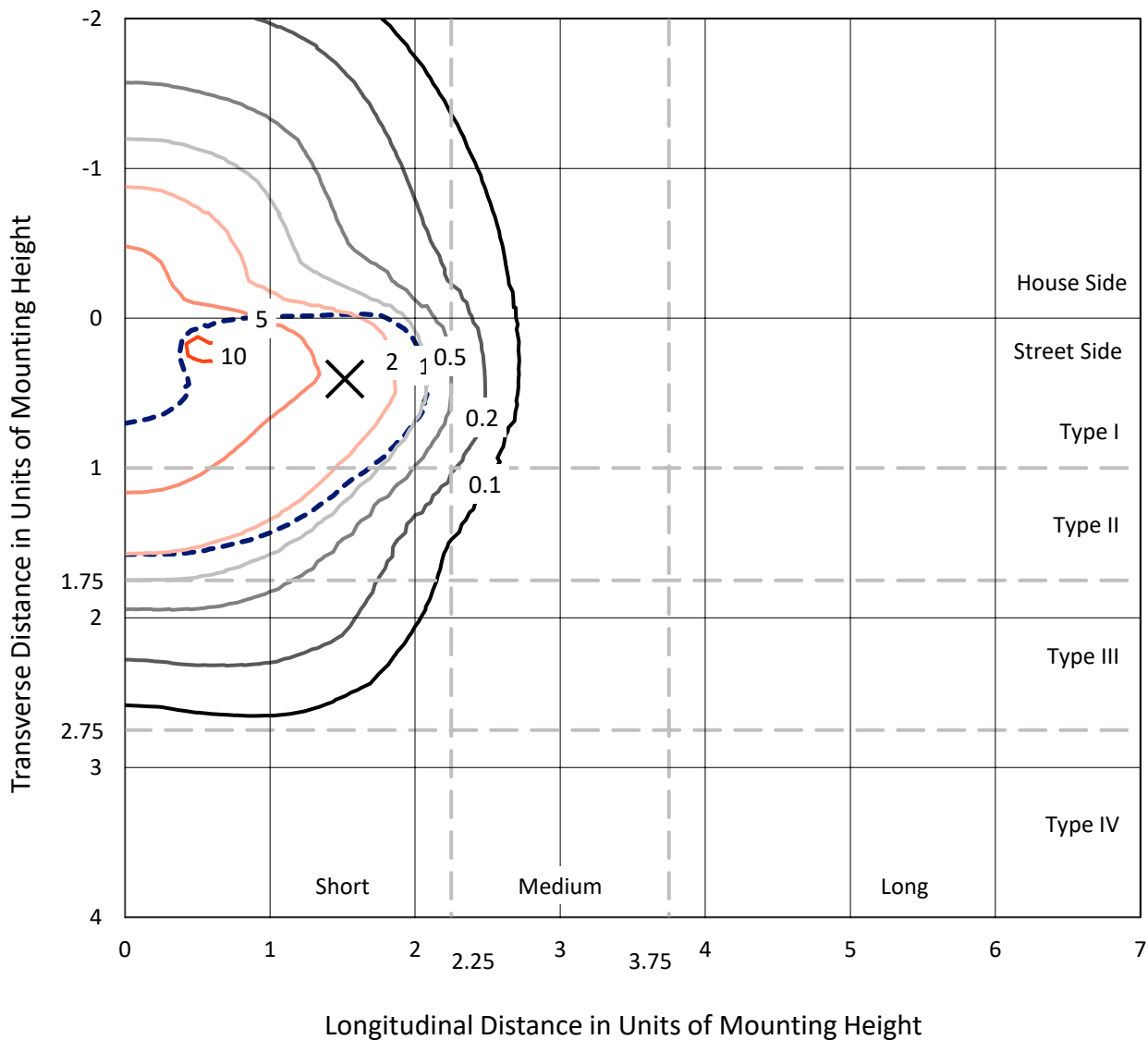
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

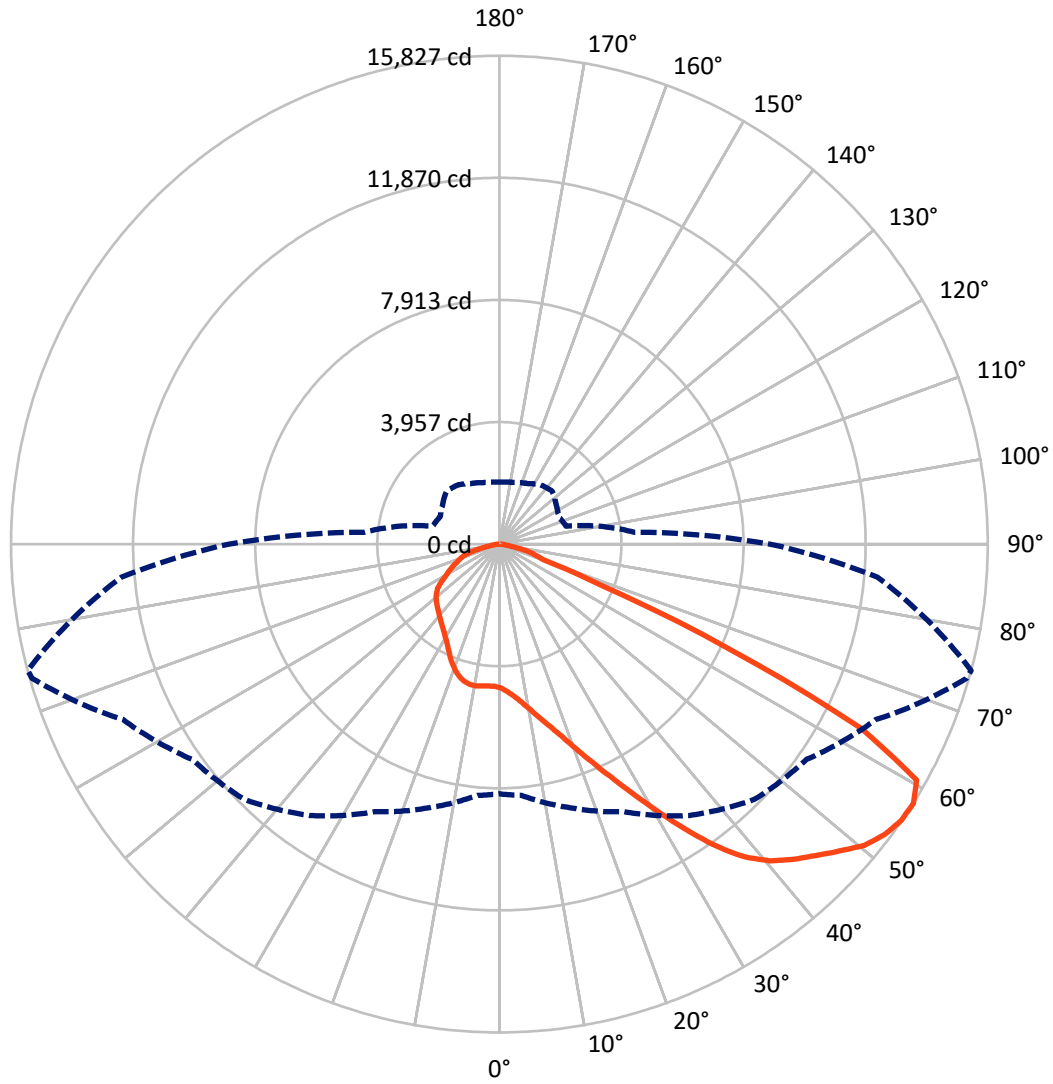
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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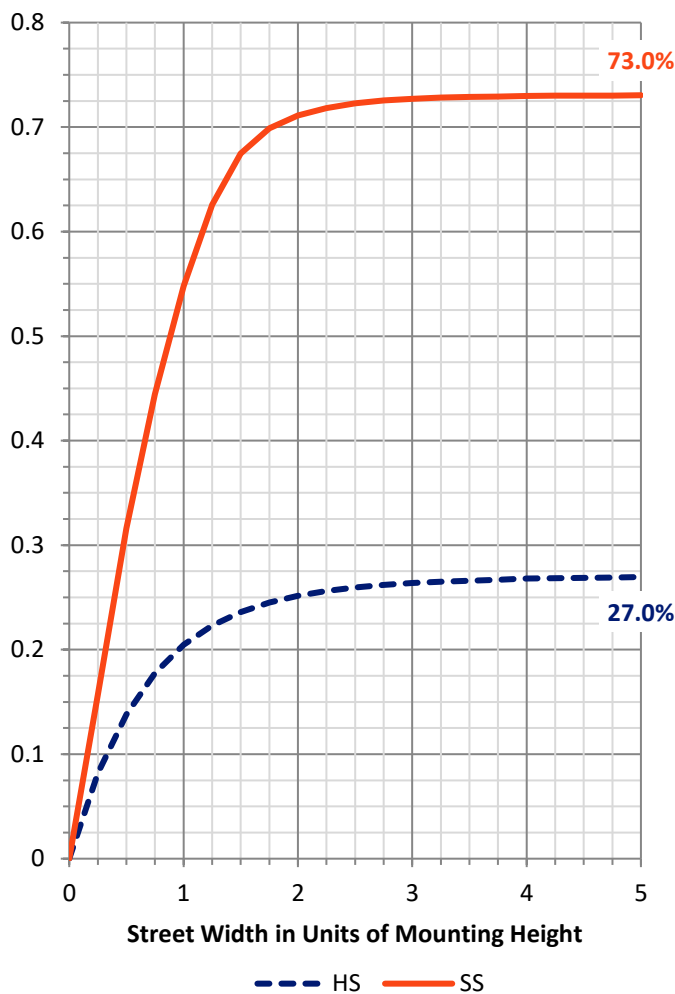
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6726.0	0.0	6726.0
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	18137.1	0.0	18137.1
	% Fixture	72.9	0.0	72.9
Total	Lumens	24863.1	0.0	24863.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.9	1.9
10°-20°	1483.5	6.0
20°-30°	2630.9	10.6
30°-40°	4027.5	16.2
40°-50°	5607.9	22.6
50°-60°	6425.6	25.8
60°-70°	3301.6	13.3
70°-80°	831.2	3.3
80°-90°	88.9	0.4
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°	24863.1	100.0
0°-180°	24863.1	100.0

Coefficient of Utilization



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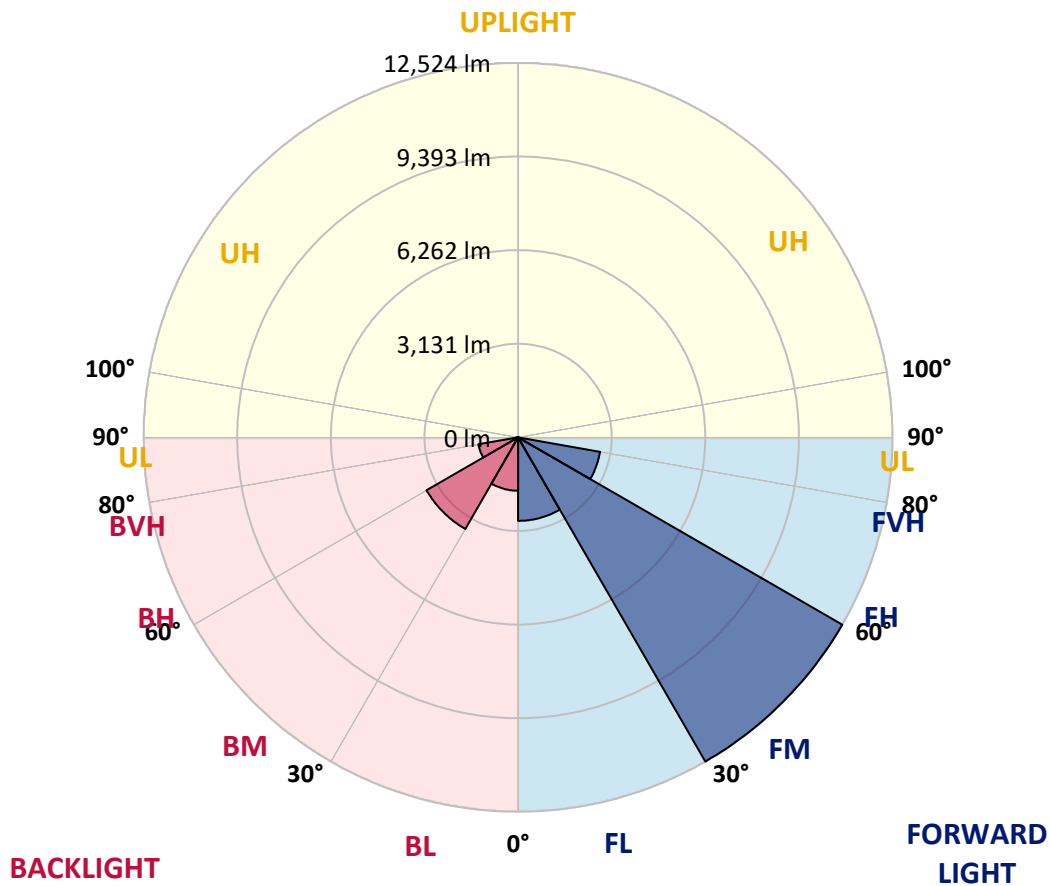
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.5	11.2			
FM (30°-60°)	12523.8	50.4			
FH (60°-80°)	2786.9	11.2			G2/5000
FVH (80°-90°)	32.9	0.1			G1/100
BL (0°-30°)	1786.8	7.2	B3/2500		
BM (30°-60°)	3537.2	14.2	B3/5000		
BH (60°-80°)	1345.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	56.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3
2.5°	5002.6	5015.4	5002.6	5024.0	4981.2	4962.0	4914.9	4844.4	4788.8	4780.3	4718.3
5°	5391.7	5419.5	5402.4	5393.8	5336.1	5293.3	5222.8	5081.7	4966.3	4949.1	4827.3
7.5°	5641.8	5661.1	5661.1	5667.5	5646.1	5596.9	5522.1	5355.3	5192.9	5167.2	4983.4
10°	5725.2	5740.2	5767.9	5821.4	5864.2	5879.1	5829.9	5669.6	5470.8	5445.1	5188.6
12.5°	5744.4	5761.5	5804.3	5902.6	6020.2	6127.1	6135.7	6018.1	5795.7	5767.9	5425.9
15°	5780.8	5797.9	5855.6	5977.5	6150.6	6355.9	6482.0	6400.8	6154.9	6125.0	5695.3
17.5°	5776.5	5795.7	5881.3	6043.7	6276.8	6573.9	6817.6	6851.8	6597.4	6546.1	6001.0
20°	5765.8	5782.9	5874.8	6073.7	6362.3	6770.6	7211.0	7388.4	7114.8	7067.8	6358.0
22.5°	5851.3	5870.6	5941.1	6105.7	6407.2	6922.4	7574.4	8002.0	7728.4	7662.1	6768.5
25°	6043.7	6071.5	6114.3	6227.6	6488.4	7057.1	7946.4	8696.8	8416.8	8337.7	7215.3
27.5°	6340.9	6375.1	6435.0	6488.4	6670.1	7228.1	8316.3	9475.0	9194.9	9111.6	7687.7
30°	6704.3	6749.2	6826.2	6862.5	6986.5	7480.4	8718.2	10276.7	10114.2	9998.8	8220.1
32.5°	7206.7	7268.7	7341.4	7352.1	7426.9	7863.1	9115.8	11072.0	11069.8	10988.6	8825.1
35°	7860.9	7927.2	7942.2	7957.1	7993.5	8389.0	9596.9	11796.7	12076.8	11982.7	9483.6
37.5°	8575.0	8671.2	8694.7	8628.4	8679.7	9021.8	10137.7	12378.2	12953.3	12852.8	10120.6
40°	9338.2	9376.7	9440.8	9336.0	9400.2	9746.5	10667.9	12750.2	13607.5	13500.6	10623.0
42.5°	9885.5	9956.0	10052.2	10013.7	10050.1	10366.5	11039.9	12929.8	14073.5	13966.6	10984.3
45°	10479.8	10501.2	10563.2	10554.6	10576.0	10871.0	11307.1	13008.9	14490.4	14394.2	11292.2
47.5°	10997.2	11029.2	11069.8	11022.8	10975.8	11168.2	11525.2	13077.3	14971.4	14856.0	11615.0
50°	11495.3	11523.1	11572.2	11435.4	11260.1	11309.3	11632.1	13171.4	15422.5	15341.3	11869.4
52.5°	11587.2	11617.1	11848.0	11875.8	11651.3	11478.2	11820.2	13378.7	15687.6	15636.3	11961.3
55°	10430.6	10484.1	10943.7	11471.8	12025.5	11969.9	12121.7	13487.8	15792.4	15805.2	12125.9
57.5°	8096.1	8173.0	8844.3	9569.1	10734.2	11698.4	12160.2	13460.0	15756.0	15826.6	12294.8
60°	5310.4	5355.3	6150.6	6963.0	8170.9	9504.9	10883.9	12959.7	15433.2	15533.7	12252.1
62.5°	3206.8	3258.1	3897.3	4513.0	5224.9	6116.4	7382.0	10415.7	12936.2	13160.7	9812.8
65°	2238.3	2306.8	2866.9	3373.5	3619.4	3435.5	3739.1	5817.1	8059.7	8153.8	5996.7
67.5°	1622.6	1669.7	2129.3	2732.2	3003.7	2426.5	1849.2	2576.1	3510.4	3544.6	2473.5
70°	1062.5	1116.0	1532.8	2080.1	2452.1	1966.8	1383.2	1393.9	1477.3	1494.4	1436.6
72.5°	583.6	615.7	947.1	1381.1	1449.5	1175.8	1079.6	1158.7	1216.4	1216.4	1231.4
75°	301.4	329.2	387.0	455.4	549.4	643.5	778.2	895.8	957.8	962.0	955.6
77.5°	153.9	164.6	207.4	224.5	245.9	286.5	372.0	476.7	532.3	553.7	549.4
80°	72.7	77.0	87.7	102.6	126.1	160.3	201.0	239.4	273.6	277.9	301.4
82.5°	38.5	42.8	47.0	55.6	68.4	85.5	117.6	141.1	162.5	166.8	186.0
85°	15.0	17.1	19.2	21.4	29.9	36.3	49.2	66.3	81.2	81.2	96.2
87.5°	0.0	0.0	0.0	0.0	2.1	4.3	8.6	10.7	15.0	15.0	25.7
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: GWS-SA5E-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3	4656.3
2.5°	4703.3	4641.3	4613.5	4568.6	4532.3	4491.6	4459.6	4436.1	4421.1	4412.5	4404.0
5°	4780.3	4686.2	4611.4	4521.6	4459.6	4399.7	4350.5	4316.3	4299.2	4286.4	4277.9
7.5°	4900.0	4773.8	4632.7	4493.8	4384.8	4288.5	4226.6	4190.2	4166.7	4158.1	4151.7
10°	5064.6	4889.3	4656.3	4436.1	4273.6	4168.8	4126.1	4109.0	4111.1	4106.8	4104.7
12.5°	5250.6	5011.1	4649.8	4333.4	4153.9	4091.9	4094.0	4121.8	4153.9	4162.4	4164.6
15°	5451.5	5130.9	4587.9	4200.9	4059.8	4066.2	4121.8	4188.1	4247.9	4271.4	4275.7
17.5°	5669.6	5231.3	4474.5	4055.5	3982.8	4051.2	4153.9	4262.9	4350.5	4389.0	4399.7
20°	5913.3	5316.9	4314.2	3912.3	3910.1	4023.5	4173.1	4316.3	4427.5	4478.8	4487.4
22.5°	6172.0	5370.3	4117.5	3779.7	3835.3	3987.1	4158.1	4307.8	4425.4	4476.7	4487.4
25°	6432.8	5387.4	3901.6	3657.9	3758.4	3929.4	4085.5	4205.2	4316.3	4361.2	4369.8
27.5°	6676.5	5338.2	3696.4	3553.1	3687.8	3843.9	3948.6	4012.8	4089.7	4123.9	4130.3
30°	6924.5	5239.9	3523.2	3469.7	3608.7	3726.3	3773.3	3777.6	3807.5	3807.5	3811.8
32.5°	7174.7	5094.5	3371.4	3388.5	3510.4	3587.3	3593.7	3544.6	3508.2	3448.4	3446.2
35°	7463.3	4947.0	3247.4	3296.6	3394.9	3442.0	3422.7	3328.6	3241.0	3142.7	3138.4
37.5°	7730.5	4795.2	3142.7	3202.5	3264.5	3298.7	3253.8	3140.5	3067.8	2967.4	2952.4
40°	7950.7	4658.4	3042.2	3104.2	3134.1	3164.0	3091.3	2999.4	3010.1	2954.5	2952.4
42.5°	8079.0	4525.9	2948.1	2995.1	3014.4	3035.8	2971.6	2903.2	2960.9	2918.2	2920.3
45°	8173.0	4410.4	2862.6	2879.7	2926.7	2958.8	2898.9	2822.0	2834.8	2670.2	2631.7
47.5°	8279.9	4346.3	2781.4	2764.3	2847.6	2903.2	2811.3	2700.1	2623.2	2460.7	2445.7
50°	8393.2	4322.8	2695.8	2648.8	2749.3	2802.7	2695.8	2556.9	2456.4	2368.8	2360.2
52.5°	8431.7	4320.6	2588.9	2509.8	2610.3	2685.2	2595.4	2454.3	2334.5	2249.0	2244.8
55°	8583.5	4382.6	2452.1	2319.6	2413.6	2567.6	2501.3	2298.2	2202.0	2163.5	2159.2
57.5°	8761.0	4393.3	2236.2	2112.2	2242.6	2424.3	2341.0	2165.7	2060.9	2013.9	2009.6
60°	8688.3	4130.3	2005.3	1954.0	2097.2	2289.6	2212.7	2060.9	1939.0	1894.1	1889.9
62.5°	6621.0	2916.0	1836.4	1817.2	1941.2	2095.1	2080.1	1921.9	1806.5	1774.4	1770.1
65°	3982.8	2048.1	1673.9	1671.8	1759.5	1907.0	1926.2	1797.9	1676.1	1631.2	1631.2
67.5°	1969.0	1567.1	1490.1	1479.4	1535.0	1639.7	1721.0	1616.2	1513.6	1470.8	1464.4
70°	1391.7	1381.1	1355.4	1325.5	1336.2	1378.9	1413.1	1325.5	1216.4	1173.7	1165.1
72.5°	1203.6	1205.8	1188.7	1165.1	1156.6	1126.7	1096.7	1032.6	966.3	921.4	925.7
75°	934.2	938.5	949.2	940.7	917.1	885.1	853.0	771.8	718.3	675.6	667.0
77.5°	545.2	566.5	600.7	592.2	596.5	551.6	538.7	459.6	410.5	380.5	374.1
80°	307.9	320.7	335.6	346.3	333.5	314.3	286.5	243.7	228.8	207.4	203.1
82.5°	186.0	198.8	205.2	213.8	209.5	183.9	162.5	134.7	121.9	111.2	109.0
85°	94.1	102.6	109.0	113.3	100.5	83.4	74.8	59.9	51.3	44.9	44.9
87.5°	23.5	25.7	29.9	25.7	23.5	10.7	8.6	2.1	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



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)