

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: P640469

Luminaire Tested: GWS-SA5D-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640469
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-SA5D-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) 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: 19896.1 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

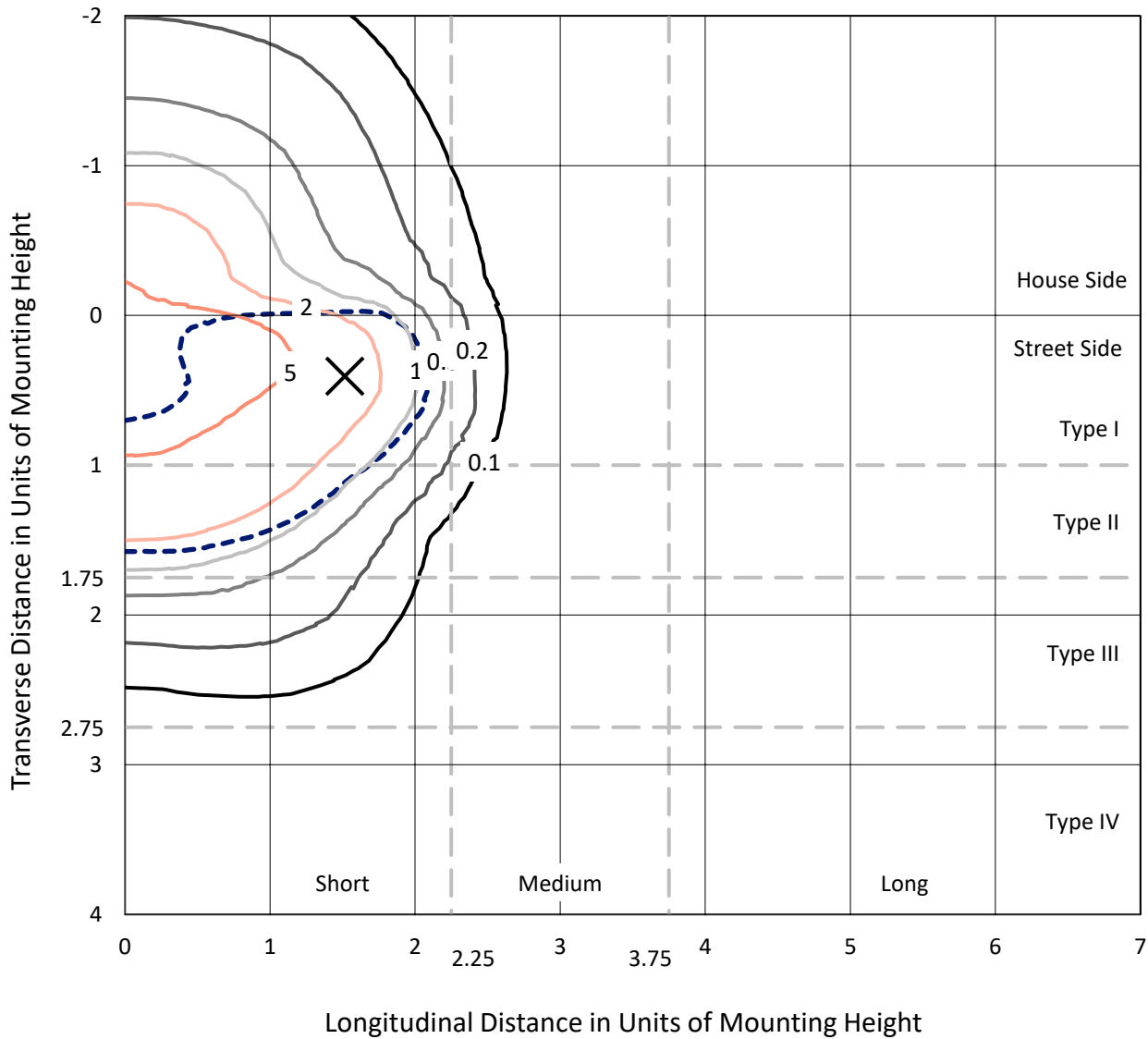
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

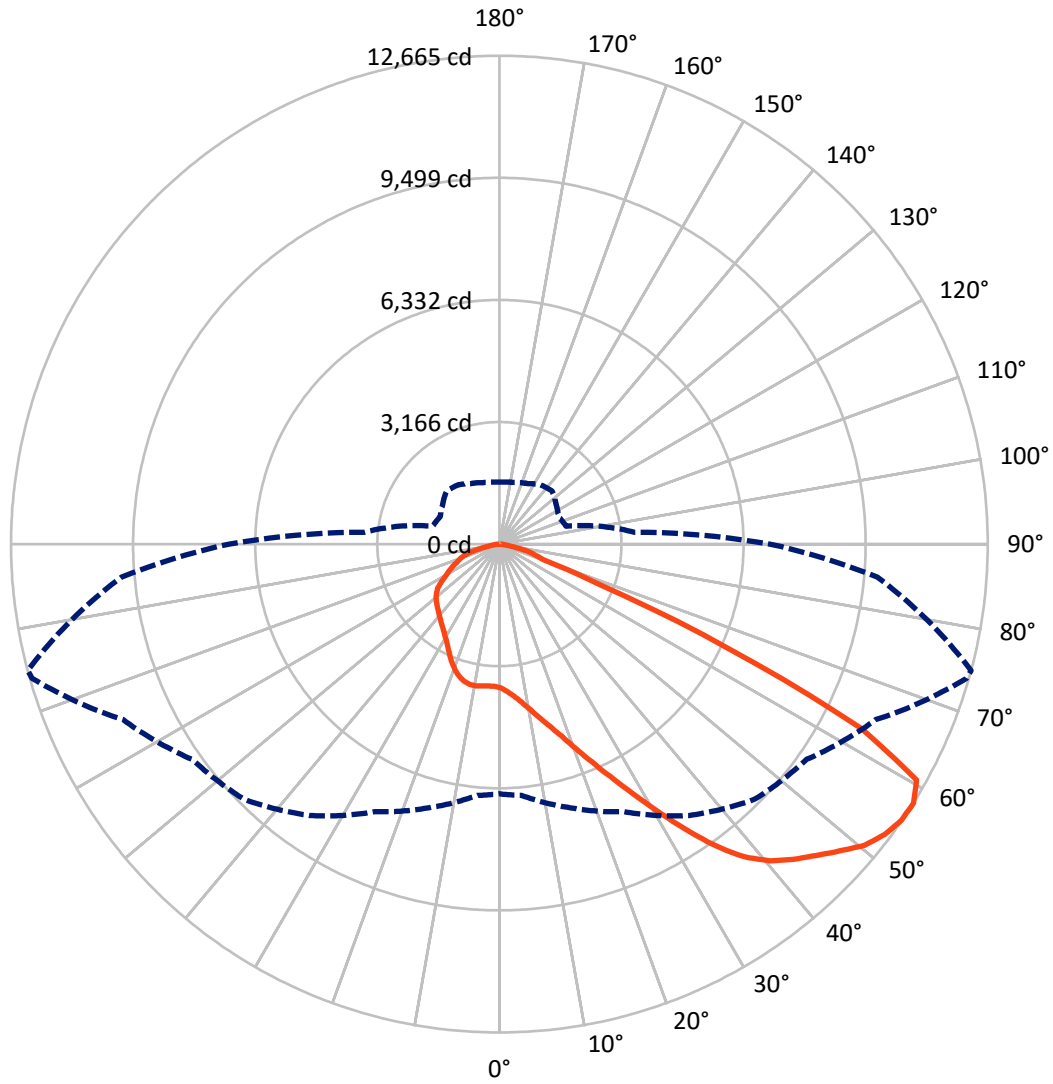
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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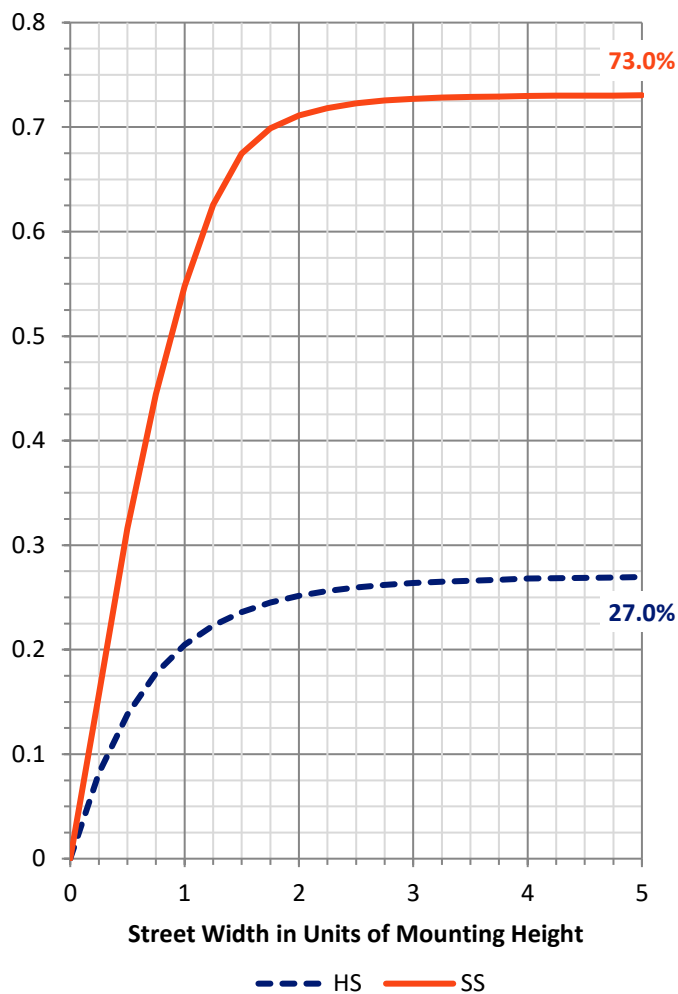
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5382.3	0.0	5382.3
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	14513.8	0.0	14513.8
	% Fixture	72.9	0.0	72.9
Total	Lumens	19896.1	0.0	19896.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.9	1.9
10°-20°	1187.1	6.0
20°-30°	2105.3	10.6
30°-40°	3222.9	16.2
40°-50°	4487.6	22.6
50°-60°	5142.0	25.8
60°-70°	2642.0	13.3
70°-80°	665.1	3.3
80°-90°	71.1	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°	19896.1	100.0
0°-180°	19896.1	100.0

Coefficient of Utilization



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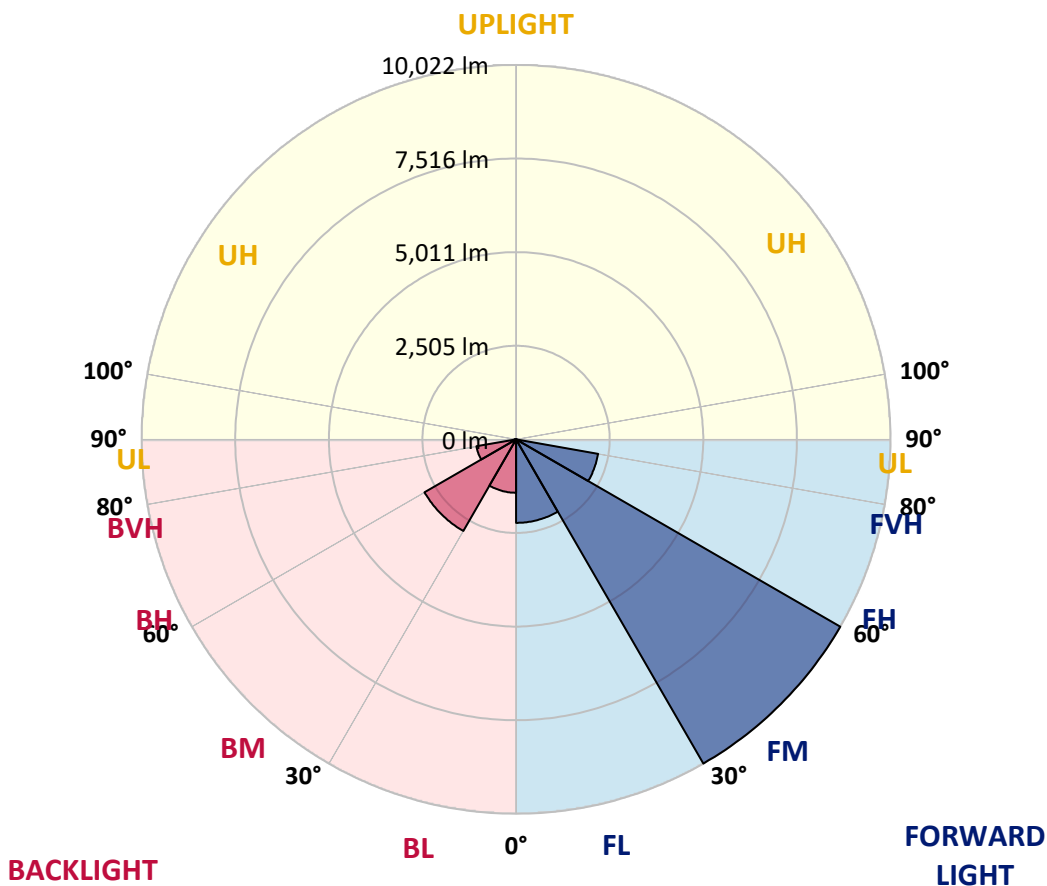
CATALOG NUMBER: GWS-SA5D-830-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2235.4	11.2			
FM (30°-60°)	10021.9	50.4			
FH (60°-80°)	2230.1	11.2			G2/5000
FVH (80°-90°)	26.3	0.1			G1/100
BL (0°-30°)	1429.9	7.2	B3/2500		
BM (30°-60°)	2830.6	14.2	B3/5000		
BH (60°-80°)	1077.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	44.8	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°	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1
2.5°	4003.2	4013.5	4003.2	4020.3	3986.1	3970.7	3933.1	3876.6	3832.1	3825.3	3775.7
5°	4314.6	4336.8	4323.1	4316.3	4270.1	4235.9	4179.4	4066.5	3974.1	3960.4	3862.9
7.5°	4514.7	4530.1	4530.1	4535.3	4518.1	4478.8	4418.9	4285.5	4155.5	4134.9	3987.8
10°	4581.4	4593.4	4615.7	4658.4	4692.6	4704.6	4665.3	4537.0	4377.9	4357.3	4152.0
12.5°	4596.8	4610.5	4644.7	4723.4	4817.5	4903.1	4909.9	4815.8	4637.9	4615.7	4341.9
15°	4625.9	4639.6	4685.8	4783.3	4921.9	5086.1	5187.1	5122.1	4925.3	4901.4	4557.5
17.5°	4622.5	4637.9	4706.3	4836.4	5022.8	5260.6	5455.7	5483.0	5279.4	5238.4	4802.1
20°	4614.0	4627.6	4701.2	4860.3	5091.3	5418.0	5770.4	5912.4	5693.4	5655.8	5087.8
22.5°	4682.4	4697.8	4754.2	4886.0	5127.2	5539.5	6061.3	6403.4	6184.4	6131.4	5416.3
25°	4836.4	4858.6	4892.8	4983.5	5192.2	5647.3	6358.9	6959.4	6735.3	6672.0	5773.9
27.5°	5074.2	5101.5	5149.4	5192.2	5337.6	5784.1	6654.9	7582.1	7358.0	7291.3	6151.9
30°	5365.0	5400.9	5462.5	5491.6	5590.8	5986.0	6976.5	8223.7	8093.7	8001.3	6577.9
32.5°	5767.0	5816.6	5874.8	5883.3	5943.2	6292.2	7294.7	8860.1	8858.4	8793.4	7062.1
35°	6290.5	6343.5	6355.5	6367.5	6396.6	6713.1	7679.7	9440.0	9664.2	9588.9	7589.0
37.5°	6861.9	6938.9	6957.7	6904.7	6945.7	7219.5	8112.5	9905.4	10365.6	10285.2	8098.8
40°	7472.7	7503.4	7554.8	7470.9	7522.3	7799.4	8536.8	10203.0	10889.1	10803.5	8500.8
42.5°	7910.6	7967.1	8044.1	8013.3	8042.3	8295.5	8834.4	10346.8	11262.0	11176.5	8789.9
45°	8386.2	8403.3	8452.9	8446.1	8463.2	8699.3	9048.3	10410.0	11595.6	11518.6	9036.3
47.5°	8800.2	8825.9	8858.4	8820.7	8783.1	8937.1	9222.8	10464.8	11980.5	11888.2	9294.6
50°	9198.8	9221.1	9260.4	9150.9	9010.6	9050.0	9308.3	10540.1	12341.5	12276.5	9498.2
52.5°	9272.4	9296.3	9481.1	9503.3	9323.7	9185.1	9458.9	10706.0	12553.6	12512.6	9571.8
55°	8346.9	8389.6	8757.4	9180.0	9623.1	9578.6	9700.1	10793.3	12637.5	12647.7	9703.5
57.5°	6478.7	6540.3	7077.5	7657.4	8589.8	9361.3	9730.9	10771.0	12608.4	12664.8	9838.7
60°	4249.6	4285.5	4921.9	5572.0	6538.6	7606.1	8709.5	10370.7	12350.1	12430.5	9804.4
62.5°	2566.2	2607.2	3118.7	3611.4	4181.1	4894.5	5907.3	8334.9	10351.9	10531.5	7852.4
65°	1791.2	1845.9	2294.1	2699.6	2896.3	2749.2	2992.1	4655.0	6449.6	6524.9	4798.7
67.5°	1298.5	1336.1	1703.9	2186.4	2403.6	1941.7	1479.8	2061.5	2809.1	2836.5	1979.4
70°	850.3	893.0	1226.6	1664.6	1962.3	1573.9	1106.9	1115.4	1182.1	1195.8	1149.6
72.5°	467.0	492.7	757.9	1105.2	1159.9	940.9	863.9	927.2	973.4	973.4	985.4
75°	241.2	263.5	309.6	364.4	439.7	514.9	622.7	716.8	766.4	769.8	764.7
77.5°	123.2	131.7	165.9	179.6	196.7	229.2	297.7	381.5	426.0	443.1	439.7
80°	58.2	61.6	70.1	82.1	100.9	128.3	160.8	191.6	219.0	222.4	241.2
82.5°	30.8	34.2	37.6	44.5	54.7	68.4	94.1	112.9	130.0	133.4	148.8
85°	12.0	13.7	15.4	17.1	24.0	29.1	39.3	53.0	65.0	65.0	77.0
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	6.8	8.6	12.0	12.0	20.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1	3726.1
2.5°	3763.7	3714.1	3691.8	3655.9	3626.8	3594.3	3568.7	3549.9	3537.9	3531.0	3524.2
5°	3825.3	3750.0	3690.1	3618.3	3568.7	3520.8	3481.4	3454.0	3440.4	3430.1	3423.3
7.5°	3921.1	3820.2	3707.2	3596.0	3508.8	3431.8	3382.2	3353.1	3334.3	3327.5	3322.3
10°	4052.8	3912.5	3726.1	3549.9	3419.8	3336.0	3301.8	3288.1	3289.8	3286.4	3284.7
12.5°	4201.7	4010.1	3720.9	3467.7	3324.0	3274.4	3276.1	3298.4	3324.0	3330.9	3332.6
15°	4362.5	4105.9	3671.3	3361.7	3248.8	3253.9	3298.4	3351.4	3399.3	3418.1	3421.5
17.5°	4537.0	4186.3	3580.6	3245.3	3187.2	3241.9	3324.0	3411.3	3481.4	3512.2	3520.8
20°	4732.0	4254.7	3452.3	3130.7	3129.0	3219.7	3339.4	3454.0	3543.0	3584.1	3590.9
22.5°	4939.0	4297.5	3294.9	3024.6	3069.1	3190.6	3327.5	3447.2	3541.3	3582.4	3590.9
25°	5147.7	4311.1	3122.2	2927.1	3007.5	3144.4	3269.3	3365.1	3454.0	3490.0	3496.8
27.5°	5342.7	4271.8	2957.9	2843.3	2951.1	3076.0	3159.8	3211.1	3272.7	3300.1	3305.2
30°	5541.2	4193.1	2819.4	2776.6	2887.8	2981.9	3019.5	3022.9	3046.9	3046.9	3050.3
32.5°	5741.4	4076.8	2697.9	2711.6	2809.1	2870.7	2875.8	2836.5	2807.4	2759.5	2757.8
35°	5972.3	3958.7	2598.7	2638.0	2716.7	2754.3	2738.9	2663.7	2593.5	2514.8	2511.4
37.5°	6186.2	3837.3	2514.8	2562.7	2612.3	2639.7	2603.8	2513.1	2455.0	2374.6	2362.6
40°	6362.4	3727.8	2434.4	2484.0	2508.0	2531.9	2473.8	2400.2	2408.8	2364.3	2362.6
42.5°	6465.0	3621.7	2359.2	2396.8	2412.2	2429.3	2378.0	2323.2	2369.4	2335.2	2336.9
45°	6540.3	3529.3	2290.7	2304.4	2342.0	2367.7	2319.8	2258.2	2268.5	2136.8	2106.0
47.5°	6625.8	3478.0	2225.7	2212.0	2278.7	2323.2	2249.7	2160.7	2099.1	1969.1	1957.1
50°	6716.5	3459.2	2157.3	2119.6	2200.1	2242.8	2157.3	2046.1	1965.7	1895.5	1888.7
52.5°	6747.3	3457.5	2071.7	2008.4	2088.9	2148.7	2076.9	1964.0	1868.2	1799.7	1796.3
55°	6868.8	3507.1	1962.3	1856.2	1931.5	2054.6	2001.6	1839.1	1762.1	1731.3	1727.9
57.5°	7010.7	3515.6	1789.5	1690.2	1794.6	1940.0	1873.3	1733.0	1649.2	1611.5	1608.1
60°	6952.6	3305.2	1604.7	1563.6	1678.3	1832.2	1770.6	1649.2	1551.7	1515.7	1512.3
62.5°	5298.3	2333.5	1469.6	1454.2	1553.4	1676.6	1664.6	1538.0	1445.6	1419.9	1416.5
65°	3187.2	1638.9	1339.5	1337.8	1408.0	1526.0	1541.4	1438.8	1341.2	1305.3	1305.3
67.5°	1575.6	1254.0	1192.4	1183.9	1228.3	1312.2	1377.2	1293.3	1211.2	1177.0	1171.9
70°	1113.7	1105.2	1084.6	1060.7	1069.2	1103.4	1130.8	1060.7	973.4	939.2	932.4
72.5°	963.2	964.9	951.2	932.4	925.5	901.6	877.6	826.3	773.3	737.3	740.8
75°	747.6	751.0	759.6	752.7	733.9	708.3	682.6	617.6	574.8	540.6	533.8
77.5°	436.2	453.4	480.7	473.9	477.3	441.4	431.1	367.8	328.5	304.5	299.4
80°	246.4	256.6	268.6	277.1	266.9	251.5	229.2	195.0	183.1	165.9	162.5
82.5°	148.8	159.1	164.2	171.1	167.7	147.1	130.0	107.8	97.5	89.0	87.2
85°	75.3	82.1	87.2	90.7	80.4	66.7	59.9	47.9	41.1	35.9	35.9
87.5°	18.8	20.5	24.0	20.5	18.8	8.6	6.8	1.7	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

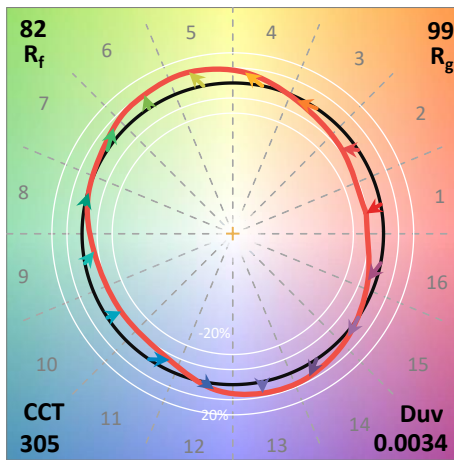
λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	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)