

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: P640449

Luminaire Tested: GWS-SA5D-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14012.8 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

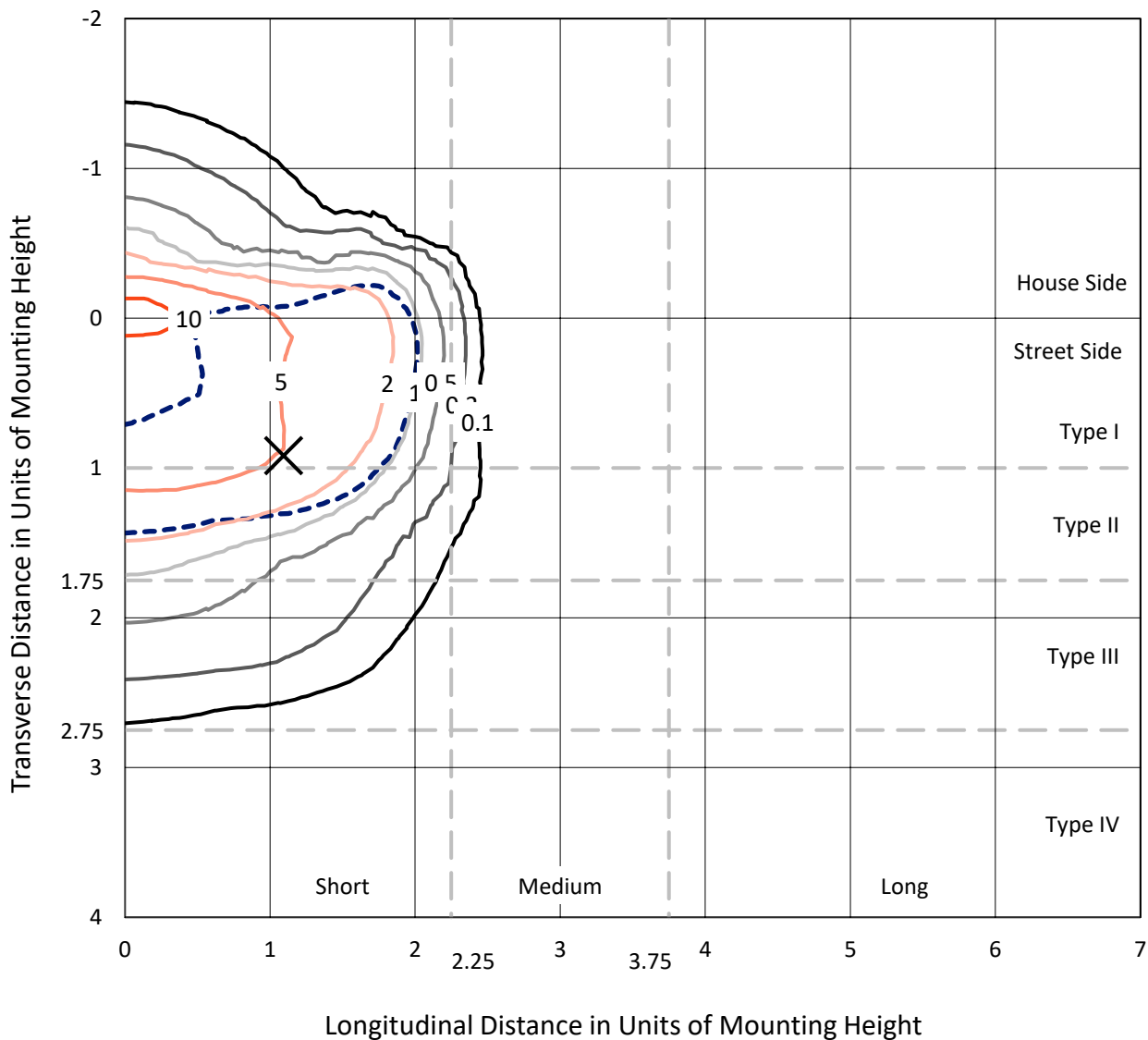
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

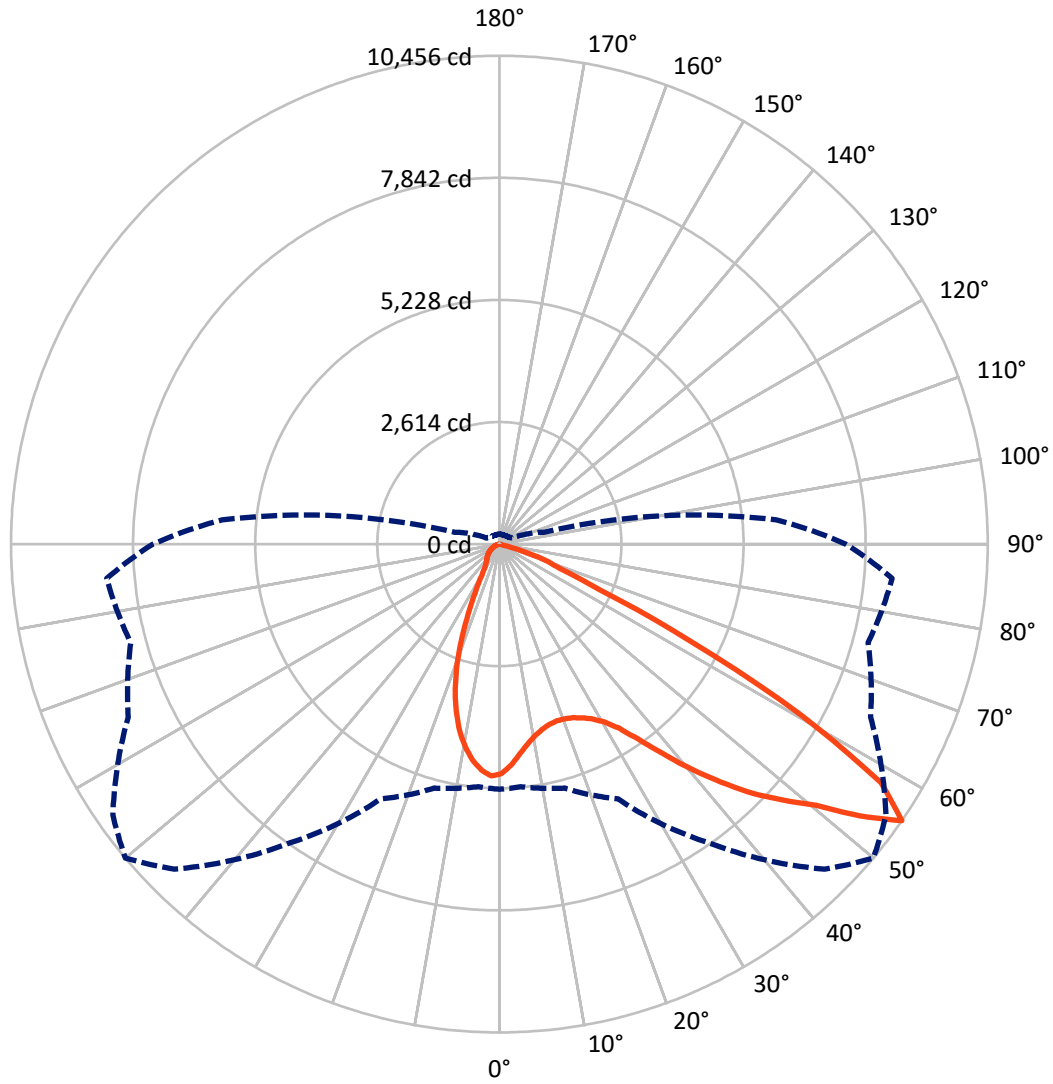
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2761.2	0.0	2761.2
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	11251.6	0.0	11251.6
	% Fixture	80.3	0.0	80.3
Total	Lumens	14012.8	0.0	14012.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.8	3.1
10°-20°	1062.5	7.6
20°-30°	1498.7	10.7
30°-40°	2217.8	15.8
40°-50°	3199.6	22.8
50°-60°	3774.1	26.9
60°-70°	1683.6	12.0
70°-80°	144.7	1.0
80°-90°	0.1	0.0
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°	14012.8	100.0
0°-180°	14012.8	100.0

Coefficient of Utilization



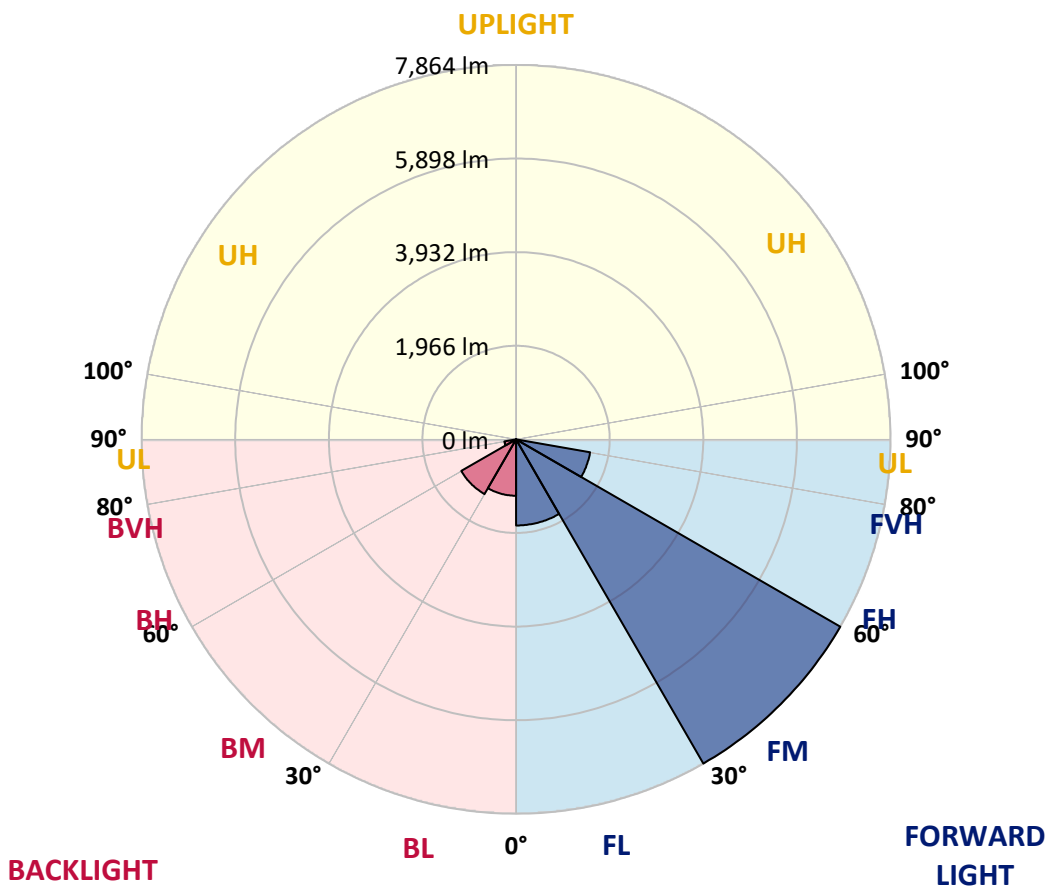
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1809.1	12.9			
FM (30°-60°)	7863.5	56.1			
FH (60°-80°)	1579.0	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1183.9	8.4	B3/2500		
BM (30°-60°)	1327.9	9.5	B2/2500		
BH (60°-80°)	249.3	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





REPORT NUMBER: P640449

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5
2.5°	4567.5	4570.9	4572.6	4618.8	4635.9	4704.3	4740.3	4759.1	4808.7	4866.9	4914.8
5°	4261.3	4256.2	4264.7	4322.9	4360.5	4461.4	4516.2	4553.8	4663.3	4800.1	4914.8
7.5°	3994.4	4004.7	4014.9	4078.2	4134.7	4244.2	4322.9	4379.3	4531.6	4735.1	4928.4
10°	3806.2	3806.2	3821.6	3893.5	3960.2	4095.3	4174.0	4245.9	4427.2	4677.0	4943.8
12.5°	3667.7	3669.4	3688.2	3770.3	3847.3	3987.6	4069.7	4139.8	4340.0	4618.8	4947.3
15°	3602.7	3597.5	3612.9	3700.2	3785.7	3917.4	4003.0	4071.4	4278.4	4586.3	4964.4
17.5°	3585.6	3582.1	3594.1	3679.7	3766.9	3895.2	3979.0	4047.4	4269.8	4596.6	5015.7
20°	3635.2	3628.3	3623.2	3696.8	3778.9	3905.5	3992.7	4069.7	4310.9	4653.0	5094.4
22.5°	3753.2	3753.2	3741.2	3777.2	3831.9	3946.5	4037.2	4138.1	4418.7	4765.9	5210.7
25°	3970.5	3953.4	3931.1	3946.5	3939.7	4011.5	4119.3	4259.6	4622.2	4952.4	5352.7
27.5°	4218.5	4233.9	4196.3	4198.0	4138.1	4112.5	4237.3	4449.5	4925.0	5215.8	5563.1
30°	4555.5	4543.5	4545.3	4540.1	4401.6	4280.1	4415.2	4697.5	5306.5	5617.8	5836.8
32.5°	4819.0	4836.1	4892.5	4925.0	4743.7	4548.7	4692.4	5034.5	5741.0	6076.3	6172.1
35°	5097.8	5128.6	5243.2	5349.3	5197.0	4972.9	5126.9	5481.0	6149.9	6529.6	6557.0
37.5°	5392.0	5453.6	5590.5	5776.9	5753.0	5554.5	5694.8	6006.2	6471.5	6803.3	6875.2
40°	5729.0	5788.9	6013.0	6281.6	6338.0	6293.6	6339.7	6521.1	6683.6	6815.3	7012.0
42.5°	6098.5	6180.7	6464.6	6823.9	7036.0	7075.3	6967.6	6948.7	6776.0	6678.5	6983.0
45°	6534.8	6630.6	6952.2	7417.5	7754.5	7807.5	7621.0	7379.8	6834.1	6577.5	6895.7
47.5°	7024.0	7114.7	7434.6	7994.0	8495.2	8515.7	8190.7	7802.4	7006.9	6693.9	6962.4
50°	7188.2	7244.7	7521.8	8178.7	9102.5	9259.9	8789.4	8277.9	7354.2	7036.0	7287.5
52.5°	6623.7	6646.0	6887.2	7550.9	8979.3	9990.3	9663.6	8987.9	7971.7	7557.7	7788.7
55°	5248.3	5212.4	5407.4	6016.4	7804.1	9841.5	10455.6	10103.2	8767.2	8170.2	8440.5
57.5°	3671.1	3628.3	3583.9	3996.1	5823.1	8342.9	9634.5	10258.9	9525.0	8777.5	9143.5
60°	3017.6	2976.6	2761.0	2571.1	3520.6	5990.8	7400.4	8575.6	9463.4	8746.7	9121.3
62.5°	2607.1	2583.1	2495.9	2237.6	2071.6	3419.6	4634.2	5759.8	7261.8	6868.3	6888.9
65°	2047.7	2040.8	2100.7	2128.1	1832.1	1892.0	2364.1	2993.7	3926.0	3701.9	3510.3
67.5°	1399.3	1383.9	1496.8	1840.7	1762.0	1493.4	1383.9	1395.9	1698.7	1038.4	824.5
70°	889.5	853.6	855.3	1141.0	1433.5	1178.7	1067.5	939.2	845.1	154.0	174.5
72.5°	569.7	547.4	470.4	514.9	663.7	574.8	579.9	499.5	333.6	82.1	95.8
75°	239.5	220.7	169.4	135.1	133.4	83.8	73.6	68.4	46.2	46.2	49.6
77.5°	1.7	0.0	0.0	1.7	3.4	1.7	1.7	3.4	6.8	10.3	12.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



REPORT NUMBER: P640449

CATALOG NUMBER: GWS-SA5D-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5	4916.5
2.5°	4943.8	4902.8	4949.0	4966.1	4964.4	4966.1	4916.5	4882.3	4880.5	4837.8	4817.3
5°	4962.7	4930.2	4964.4	4942.1	4889.1	4822.4	4733.4	4656.4	4622.2	4572.6	4548.7
7.5°	4998.6	4964.4	4959.2	4870.3	4738.6	4598.3	4440.9	4300.6	4225.4	4134.7	4139.8
10°	5024.2	4984.9	4918.2	4736.8	4517.9	4293.8	4059.4	3850.7	3719.0	3597.5	3577.0
12.5°	5034.5	4976.3	4820.7	4547.0	4239.0	3946.5	3602.7	3305.0	3099.7	2940.6	2918.4
15°	5053.3	4959.2	4695.8	4317.7	3895.2	3481.2	3043.3	2636.1	2364.1	2181.1	2196.5
17.5°	5082.4	4940.4	4555.5	4061.1	3525.7	2940.6	2348.8	1881.7	1632.0	1525.9	1527.6
20°	5123.5	4918.2	4401.6	3778.9	3082.6	2329.9	1642.2	1289.8	1219.7	1216.3	1211.2
22.5°	5178.2	4895.9	4237.3	3469.2	2557.5	1632.0	1093.1	983.6	1012.7	1069.2	1079.4
25°	5243.2	4868.6	4054.3	3120.3	1984.4	1070.9	819.4	802.3	872.4	947.7	964.8
27.5°	5344.1	4854.9	3845.6	2723.4	1392.5	768.1	670.6	680.8	744.1	807.4	822.8
30°	5515.2	4880.5	3618.1	2278.6	894.7	612.4	581.6	597.0	631.2	663.7	677.4
32.5°	5747.9	4955.8	3397.4	1792.8	638.1	532.0	525.2	533.7	547.4	566.2	571.4
35°	6019.9	5085.8	3169.9	1283.0	526.9	485.8	479.0	479.0	485.8	489.3	491.0
37.5°	6244.0	5222.7	2956.0	853.6	472.1	449.9	439.6	434.5	432.8	436.2	437.9
40°	6341.5	5279.1	2723.4	621.0	432.8	417.4	402.0	386.6	386.6	398.6	400.3
42.5°	6273.0	5215.8	2454.8	513.2	405.4	383.2	359.2	345.6	352.4	364.4	367.8
45°	6127.6	5060.2	2158.9	453.3	378.1	349.0	321.6	313.1	319.9	335.3	338.7
47.5°	6103.7	4957.5	1804.8	414.0	349.0	319.9	290.8	282.3	290.8	302.8	306.2
50°	6341.5	5046.5	1411.3	379.8	321.6	289.1	265.2	256.6	261.7	268.6	272.0
52.5°	6776.0	5376.6	1139.3	347.3	289.1	258.3	242.9	232.7	232.7	239.5	241.2
55°	7417.5	5953.1	983.6	309.6	251.5	234.4	220.7	210.4	210.4	213.8	215.5
57.5°	8156.5	6651.1	1019.6	260.0	220.7	212.1	200.1	191.6	195.0	195.0	195.0
60°	8053.8	6599.8	1091.4	219.0	195.0	191.6	181.3	177.9	186.5	179.6	176.2
62.5°	5932.6	4558.9	571.4	179.6	167.6	164.2	157.4	164.2	176.2	157.4	150.5
65°	2880.8	2206.8	229.2	147.1	142.0	138.6	135.1	145.4	152.2	123.2	116.3
67.5°	677.4	550.8	148.8	124.9	118.0	111.2	114.6	116.3	111.2	83.8	80.4
70°	176.2	172.8	116.3	104.4	94.1	87.2	87.2	85.5	73.6	53.0	49.6
72.5°	95.8	94.1	83.8	78.7	65.0	58.2	59.9	53.0	41.1	30.8	29.1
75°	47.9	51.3	47.9	44.5	35.9	32.5	32.5	29.1	20.5	12.0	12.0
77.5°	10.3	12.0	12.0	10.3	8.6	6.8	6.8	8.6	3.4	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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)