

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: P629098

Luminaire Tested: GWS-SA1A-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.6 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

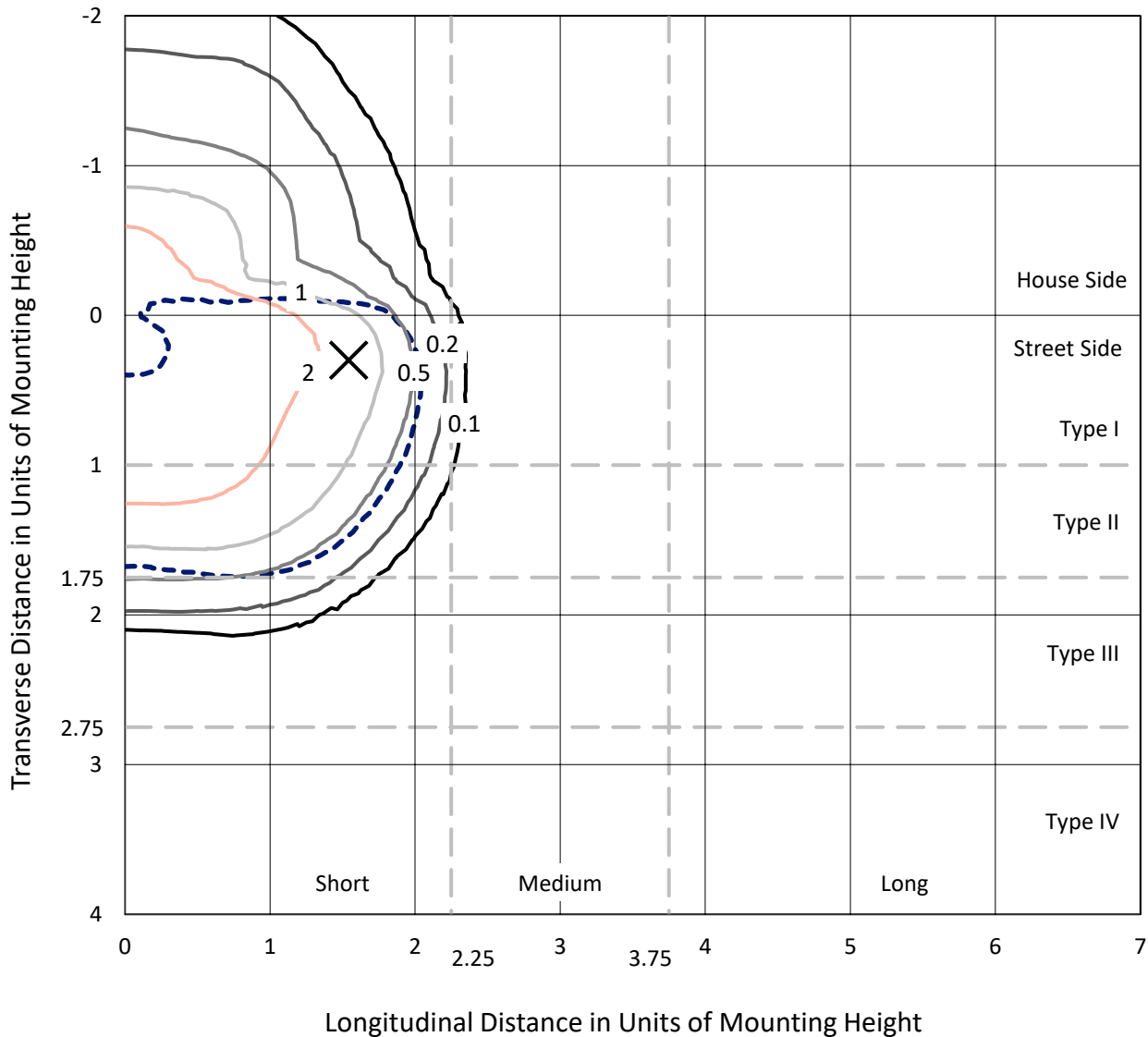
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629098
 CATALOG NUMBER: GWS-SA1A-830-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

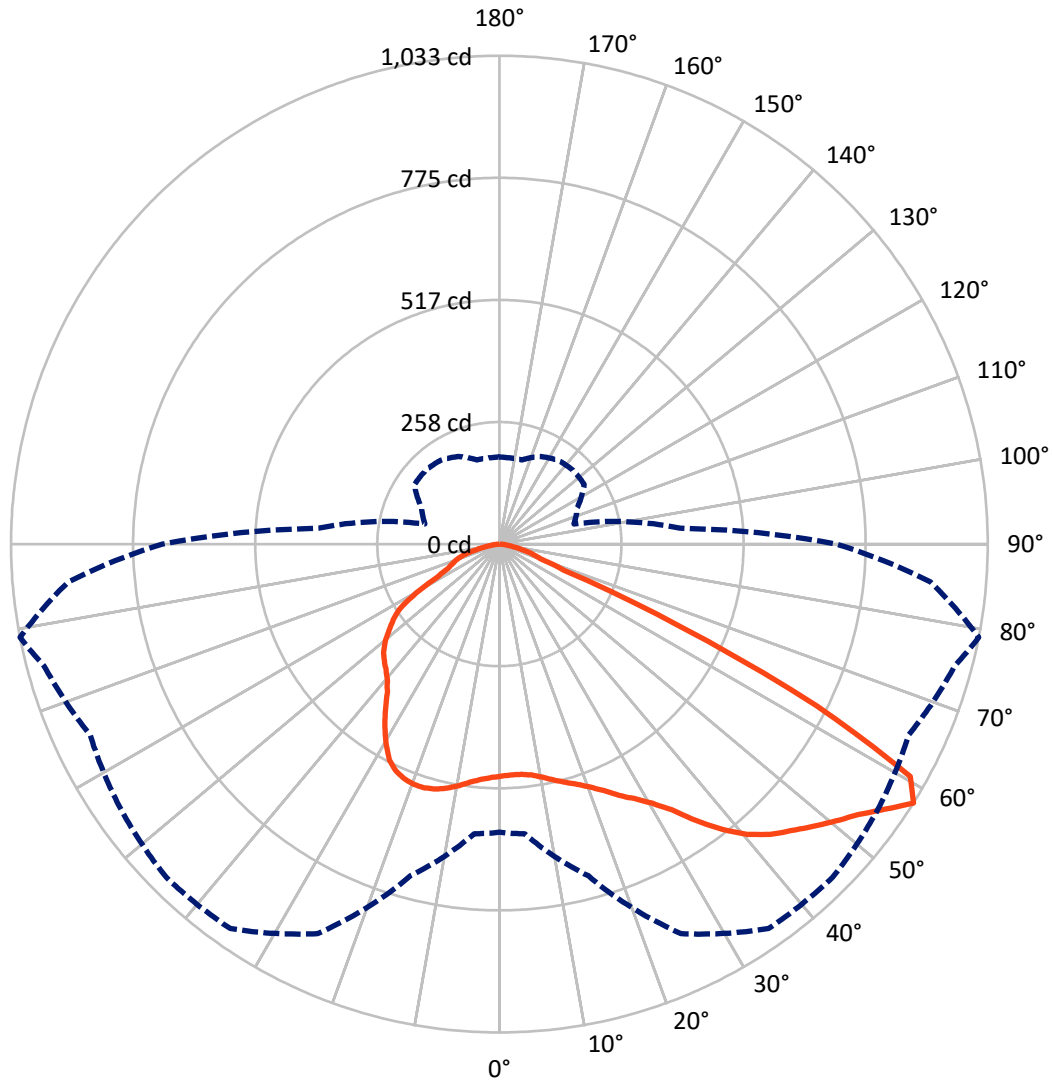
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

REPORT NUMBER: P629098
CATALOG NUMBER: GWS-SA1A-830-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P629098

CATALOG NUMBER: GWS-SA1A-830-U-T3R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.7	0.0	588.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	1391.9	0.0	1391.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	1980.6	0.0	1980.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	2.3
10°-20°	126.3	6.4
20°-30°	214.1	10.8
30°-40°	327.7	16.5
40°-50°	437.0	22.1
50°-60°	504.7	25.5
60°-70°	262.3	13.2
70°-80°	55.8	2.8
80°-90°	7.2	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°	1980.6	100.0
0°-180°	1980.6	100.0

Coefficient of Utilization



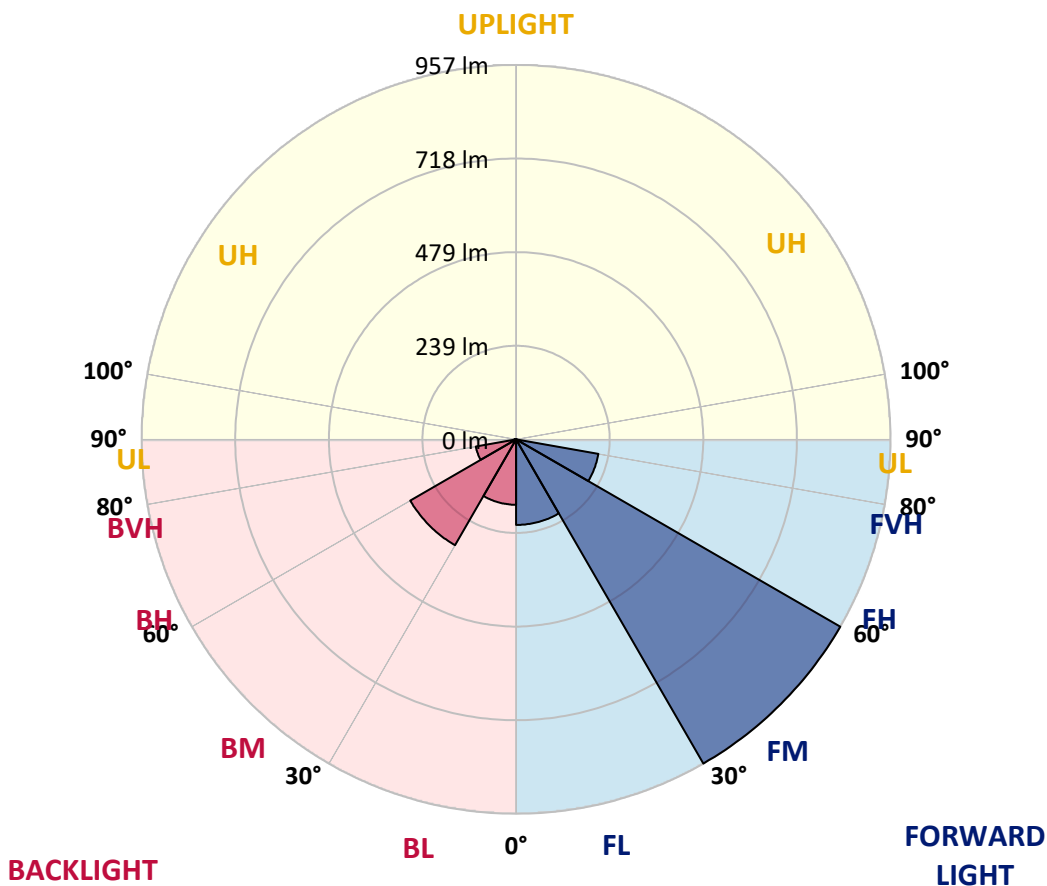
REPORT NUMBER: P629098

CATALOG NUMBER: GWS-SA1A-830-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.7	11.0			
FM (30°-60°)	957.1	48.3			
FH (60°-80°)	213.6	10.8			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	167.2	8.4	B1/500		
BM (30°-60°)	312.4	15.8	B1/1000		
BH (60°-80°)	104.5	5.3	B0/110		G0/110
BVH (80°-90°)	4.7	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





REPORT NUMBER: P629098

CATALOG NUMBER: GWS-SA1A-830-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8
2.5°	468.5	467.5	467.8	469.1	474.0	477.6	481.3	484.7	487.9	488.9	489.7
5°	451.8	450.0	450.5	452.6	458.3	464.3	470.9	479.0	486.8	489.4	492.8
7.5°	440.0	439.7	440.5	443.7	449.7	455.4	464.0	475.5	488.9	493.3	499.3
10°	424.3	423.6	426.9	433.5	443.4	452.5	462.7	476.3	495.0	501.5	510.8
12.5°	411.8	411.5	414.9	424.1	436.8	451.2	465.3	480.5	503.3	512.2	523.6
15°	419.1	417.6	417.8	424.3	435.6	452.6	471.7	488.1	511.6	522.9	537.5
17.5°	440.3	437.7	435.8	436.9	443.4	461.0	481.6	498.3	521.1	534.4	552.2
20°	469.6	468.2	462.8	459.3	460.7	476.3	497.2	512.7	533.6	548.5	567.6
22.5°	509.0	505.4	498.1	492.5	488.1	500.2	519.5	532.9	550.9	566.5	586.4
25°	557.7	552.5	541.0	532.1	522.7	535.2	552.4	562.6	574.7	589.1	608.1
27.5°	607.4	603.1	590.3	578.3	566.6	574.4	594.8	600.6	599.3	609.9	626.1
30°	660.4	654.9	642.7	629.8	614.7	619.7	638.0	641.0	627.2	635.9	646.9
32.5°	716.3	710.9	700.4	685.3	668.3	670.3	675.3	678.0	664.9	669.9	678.4
35°	773.1	768.1	757.4	742.5	730.0	718.2	705.6	716.6	709.0	718.7	718.0
37.5°	825.1	820.1	813.4	801.9	780.5	757.2	728.1	741.7	753.5	765.8	763.7
40°	860.2	856.8	858.4	856.7	829.1	783.0	739.1	754.0	786.2	807.3	806.1
42.5°	890.5	887.1	896.5	903.3	870.9	806.8	744.4	758.7	807.1	840.0	838.4
45°	903.9	903.0	918.5	940.1	909.1	832.0	758.2	768.4	823.0	865.1	858.9
47.5°	887.9	891.3	921.9	958.4	940.9	862.0	786.4	789.0	843.7	892.3	875.0
50°	856.0	863.5	904.8	958.8	964.0	895.8	825.4	818.9	871.6	921.3	883.4
52.5°	809.5	817.3	884.7	955.1	977.3	935.0	877.4	868.2	906.7	950.3	884.8
55°	702.8	713.3	838.7	946.7	990.3	970.7	936.0	917.2	952.0	990.1	899.2
57.5°	609.7	615.2	726.6	909.3	992.9	996.9	977.8	955.4	997.1	1033.2	915.4
60°	447.4	448.7	549.0	752.4	913.3	981.7	974.4	941.2	975.7	998.7	841.3
62.5°	252.8	252.9	332.9	502.2	682.3	800.1	804.7	775.4	746.4	753.2	585.6
65°	94.9	103.8	152.1	246.8	393.4	472.4	491.2	498.0	449.7	419.7	314.0
67.5°	63.5	65.6	88.7	127.0	175.1	202.1	226.1	226.7	165.8	147.9	123.7
70°	48.4	50.5	69.8	90.8	88.7	81.9	88.6	86.2	89.1	91.5	94.1
72.5°	36.1	38.2	54.1	64.1	53.3	52.5	59.4	66.1	72.2	74.8	78.9
75°	24.0	25.6	36.4	34.3	29.5	34.8	43.4	50.0	53.6	56.7	59.8
77.5°	15.2	16.4	19.4	15.7	16.4	20.4	25.3	31.3	34.7	37.7	39.4
80°	7.0	6.8	6.6	7.4	9.2	12.0	15.2	18.8	21.4	22.7	23.6
82.5°	2.8	3.1	3.4	4.0	5.0	6.5	8.6	11.0	13.1	13.4	14.3
85°	1.1	1.3	1.5	1.8	2.3	2.9	3.6	5.0	6.3	6.8	7.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.3	0.5	0.8	1.5	1.6	1.8
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: P629098

CATALOG NUMBER: GWS-SA1A-830-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8
2.5°	494.1	492.0	495.5	498.0	500.2	497.8	497.0	494.9	494.6	494.6	495.7
5°	498.6	497.2	500.9	502.3	502.2	496.8	493.6	489.4	487.3	487.3	487.6
7.5°	506.7	505.9	508.0	505.7	500.6	489.7	479.0	470.1	464.1	461.0	462.0
10°	520.1	519.2	517.4	509.0	494.1	471.6	449.7	433.5	423.8	418.3	418.6
12.5°	533.3	531.6	525.3	506.7	476.1	440.3	411.7	393.5	382.8	376.3	374.9
15°	547.7	543.5	529.9	495.0	446.8	402.1	372.1	352.5	341.0	337.2	337.0
17.5°	561.4	554.0	529.4	474.3	411.7	362.1	332.0	319.8	317.9	319.7	320.2
20°	575.4	563.4	524.0	445.7	369.9	322.3	306.7	311.7	319.0	323.9	325.0
22.5°	589.8	571.2	511.9	408.7	325.8	295.4	301.9	312.9	321.9	328.4	329.1
25°	606.0	578.4	493.8	363.6	290.5	287.9	300.7	312.4	322.1	329.5	330.8
27.5°	615.2	578.6	468.3	317.1	274.3	285.0	298.0	309.0	318.7	326.8	328.3
30°	624.3	574.2	428.0	279.3	269.6	281.6	293.3	303.5	312.7	320.6	322.4
32.5°	637.1	570.2	381.5	257.6	266.9	278.4	287.9	297.0	304.1	307.7	308.7
35°	652.9	565.0	332.1	248.3	265.1	275.8	284.2	289.1	279.8	277.9	280.0
37.5°	675.1	560.1	282.9	244.2	264.0	274.8	282.3	269.8	258.5	253.9	255.5
40°	699.1	557.4	249.5	241.0	264.4	275.8	274.2	255.7	239.3	229.8	229.5
42.5°	719.5	553.2	228.2	238.9	265.7	279.5	263.2	243.2	218.9	213.3	213.4
45°	733.3	542.5	216.8	236.6	266.9	280.3	258.0	226.1	208.7	205.2	205.0
47.5°	738.9	523.1	209.5	233.0	266.7	273.7	247.4	218.9	201.6	200.6	201.3
50°	735.2	491.2	202.1	226.1	262.8	266.7	235.3	212.6	196.8	202.1	206.0
52.5°	721.4	449.9	193.2	216.5	255.9	258.8	229.1	208.7	193.2	200.3	203.4
55°	717.9	416.3	181.9	204.0	245.5	244.7	222.7	206.8	190.8	188.0	188.5
57.5°	713.2	383.6	163.1	181.7	219.3	220.6	216.5	204.5	184.4	183.6	184.4
60°	619.6	294.1	145.4	156.8	180.1	187.0	209.5	200.3	174.2	170.8	170.7
62.5°	404.7	178.1	129.4	136.7	146.7	154.8	191.1	188.2	163.1	161.0	162.4
65°	217.6	127.0	117.7	122.1	127.6	133.8	158.4	167.6	147.4	139.9	140.1
67.5°	111.3	108.0	109.0	112.1	116.3	119.3	127.8	135.9	125.7	119.3	119.2
70°	95.2	97.8	99.3	101.1	103.8	103.3	104.1	105.6	104.8	101.7	101.5
72.5°	81.1	85.2	85.5	85.8	86.8	84.5	83.1	80.6	80.8	81.3	81.5
75°	61.7	65.6	66.6	66.1	67.0	64.1	62.2	59.8	56.8	56.4	56.7
77.5°	40.2	43.2	44.7	44.4	44.9	42.6	41.6	39.0	35.6	34.3	34.3
80°	24.3	26.1	27.2	27.5	28.0	26.4	24.8	22.5	21.1	19.6	19.6
82.5°	14.7	15.9	16.7	16.7	17.2	15.4	14.1	12.5	11.8	10.5	10.5
85°	7.4	8.3	8.6	8.4	8.1	6.6	6.2	5.3	5.0	4.4	4.4
87.5°	1.8	2.3	2.3	1.6	1.6	0.8	0.5	0.2	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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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)