

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: P629586

Luminaire Tested: GWS-SA1B-830-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-830-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2296.1 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

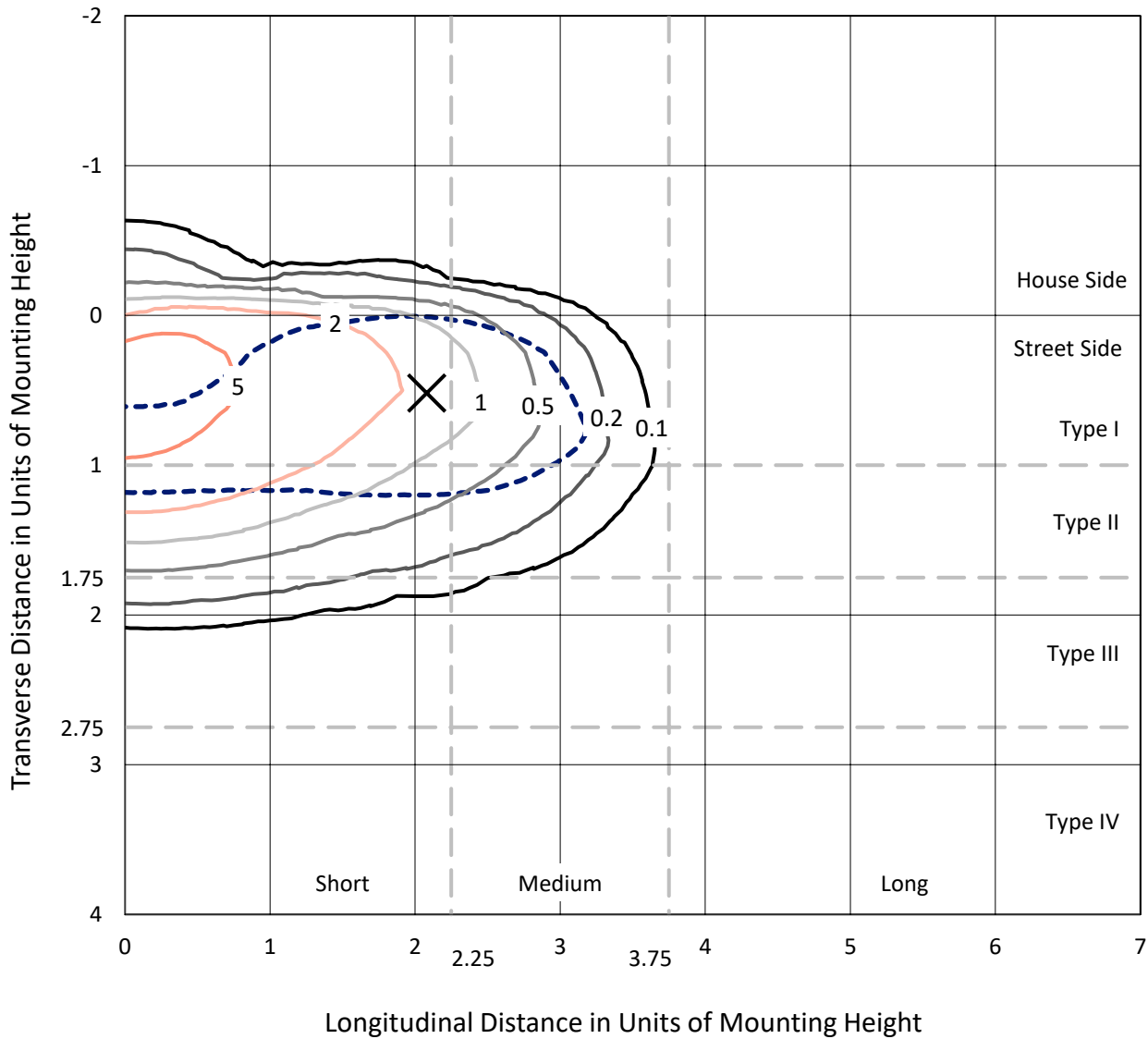
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629586
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Iso-Footcandle Lines of Horizontal Illumination

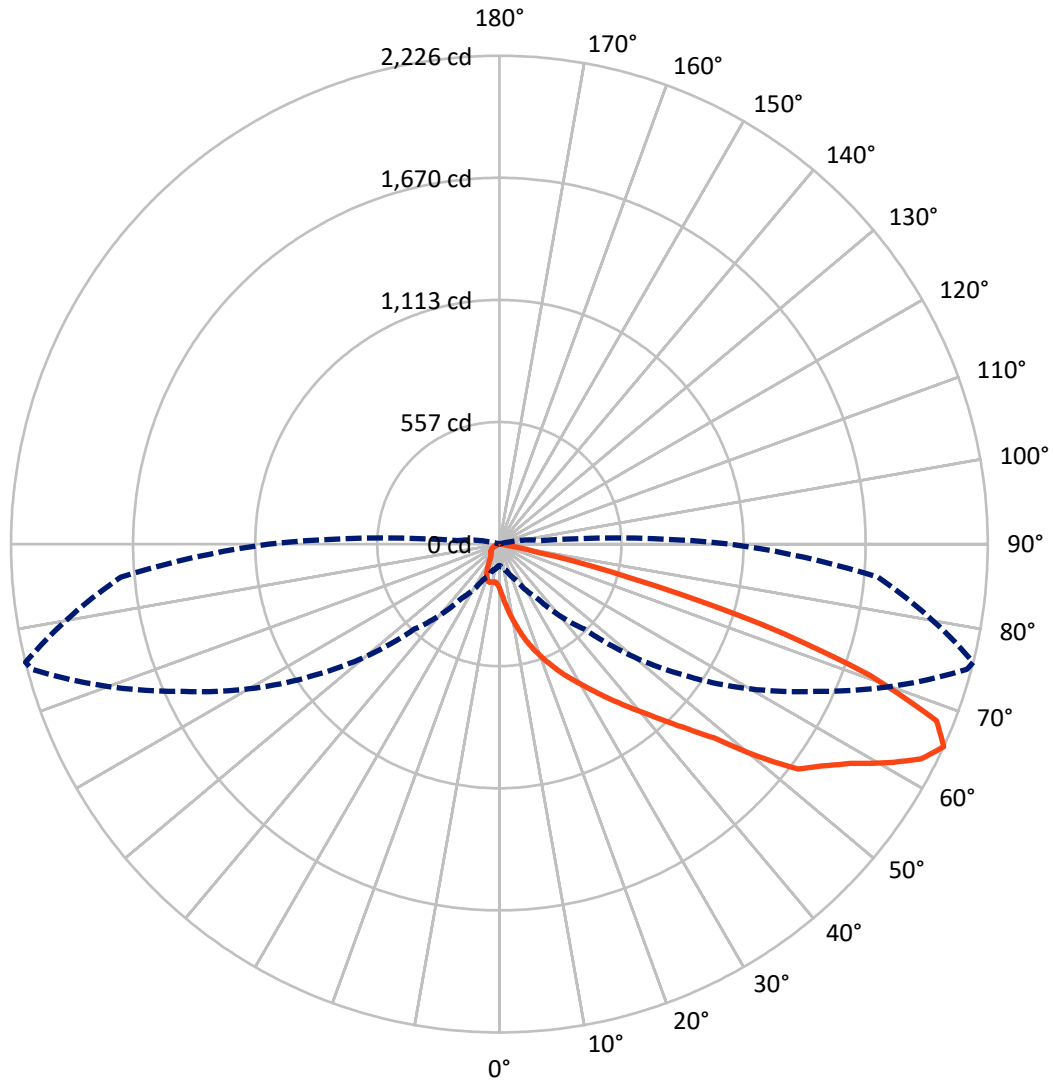
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

REPORT NUMBER: P629586
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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.0	0.0	127.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	2169.1	0.0	2169.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	2296.1	0.0	2296.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	1.1
10°-20°	93.8	4.1
20°-30°	191.5	8.3
30°-40°	340.5	14.8
40°-50°	503.3	21.9
50°-60°	576.3	25.1
60°-70°	439.7	19.1
70°-80°	123.2	5.4
80°-90°	3.1	0.1
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°	2296.1	100.0
0°-180°	2296.1	100.0

Coefficient of Utilization



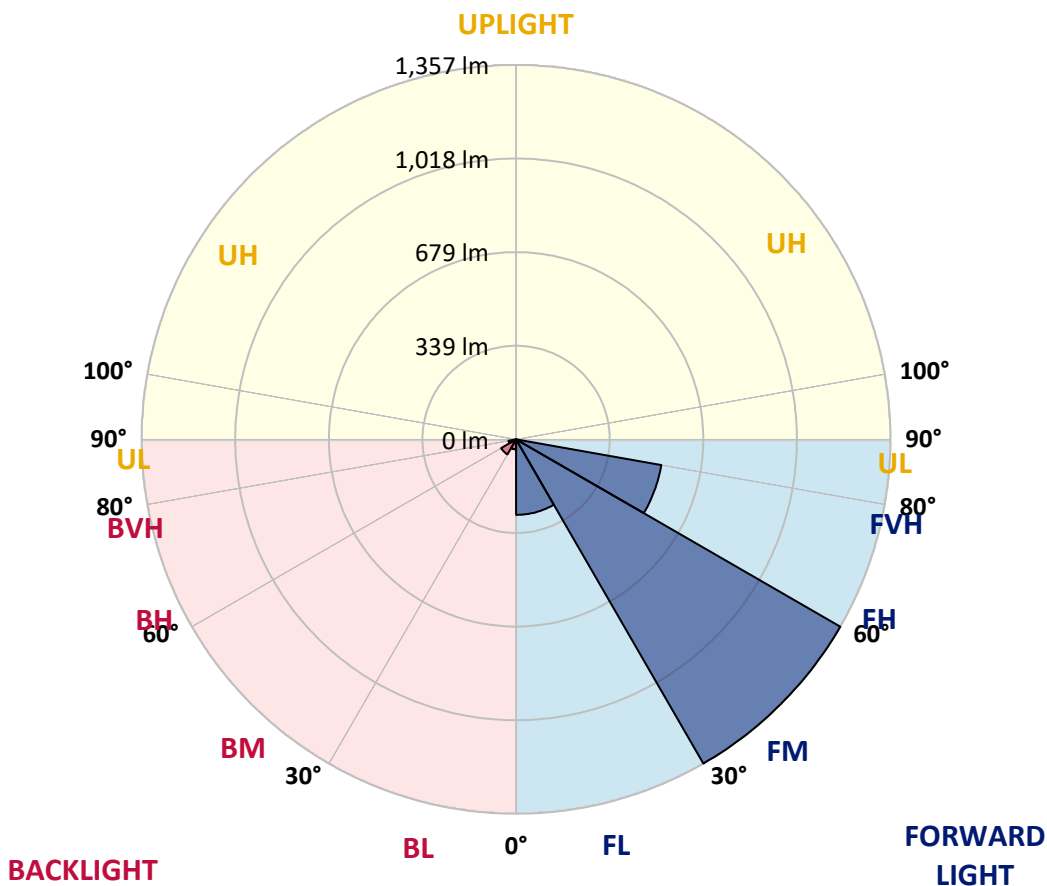
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.8	11.9			
FM (30°-60°)	1357.5	59.1			
FH (60°-80°)	534.9	23.3			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	36.2	1.6	B0/110		
BM (30°-60°)	62.6	2.7	B0/220		
BH (60°-80°)	27.9	1.2	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





REPORT NUMBER: P629586
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3
2.5°	313.3	318.0	314.3	308.2	296.4	284.9	270.2	250.0	233.9	231.9	216.8
5°	423.1	422.7	414.7	406.8	394.3	374.7	345.1	307.6	271.5	268.4	234.5
7.5°	488.4	489.0	484.5	478.4	466.2	446.0	415.1	369.8	317.0	310.9	258.8
10°	543.3	543.1	539.9	537.0	526.0	512.5	479.4	429.6	366.0	356.4	286.0
12.5°	584.6	586.0	587.6	590.5	585.8	572.5	541.3	487.0	415.6	404.9	317.0
15°	617.2	617.6	623.7	634.8	638.6	631.7	603.3	542.5	464.5	455.4	352.7
17.5°	627.0	627.8	638.2	658.4	678.9	682.7	661.3	598.4	512.7	502.9	387.4
20°	647.6	649.5	657.2	675.0	700.7	721.5	713.1	655.0	560.9	548.0	422.9
22.5°	712.5	713.6	710.9	713.1	726.4	750.5	755.6	709.7	610.3	596.6	461.3
25°	824.2	824.6	806.0	788.5	778.5	782.9	794.2	760.1	659.3	645.8	497.0
27.5°	940.1	941.5	919.3	889.5	853.8	833.4	830.1	806.2	708.7	693.8	532.3
30°	1049.3	1049.3	1025.8	989.5	941.7	901.9	878.5	852.8	761.5	745.2	568.4
32.5°	1147.5	1146.7	1116.7	1077.3	1030.1	986.4	937.0	901.3	820.3	802.1	610.1
35°	1228.5	1226.5	1192.4	1154.6	1104.2	1071.8	1016.6	953.6	884.0	865.8	652.9
37.5°	1289.7	1287.5	1256.3	1216.3	1169.5	1148.5	1102.4	1016.2	951.1	934.6	700.5
40°	1323.0	1318.5	1296.9	1267.1	1227.9	1209.5	1190.3	1094.0	1030.1	1009.5	756.6
42.5°	1332.8	1327.5	1313.2	1299.3	1275.7	1261.2	1281.8	1181.8	1116.9	1099.1	820.7
45°	1303.8	1300.8	1299.5	1309.5	1313.8	1317.9	1368.7	1278.9	1212.6	1199.1	901.3
47.5°	1234.0	1233.2	1244.0	1285.7	1331.0	1374.0	1463.2	1398.7	1336.7	1322.2	1014.0
50°	1105.0	1113.4	1143.6	1216.7	1307.3	1405.9	1551.6	1564.9	1537.5	1516.3	1160.9
52.5°	903.4	919.5	987.3	1098.3	1228.5	1396.9	1592.4	1697.9	1725.9	1703.9	1266.3
55°	708.9	724.0	784.4	925.2	1098.9	1328.5	1594.3	1743.9	1804.9	1784.5	1337.5
57.5°	528.0	541.9	596.8	731.5	922.6	1194.0	1550.6	1769.4	1898.6	1885.5	1450.0
60°	345.1	358.8	408.4	526.2	715.6	998.1	1443.0	1764.1	2026.2	2024.9	1588.1
62.5°	191.5	202.3	238.2	330.0	499.4	772.9	1274.0	1710.8	2149.6	2157.4	1702.0
65°	98.0	104.9	126.7	181.4	302.3	548.0	1051.8	1588.8	2206.8	2226.4	1732.0
67.5°	64.1	66.3	71.6	94.3	161.9	344.7	791.5	1393.0	2126.4	2149.2	1631.4
70°	52.0	53.9	56.9	62.9	83.5	183.1	519.9	1112.6	1776.7	1792.2	1299.1
72.5°	38.2	40.6	46.5	50.4	60.2	100.4	270.4	730.3	1220.1	1247.5	816.4
75°	28.2	29.6	34.5	39.8	49.2	63.5	103.5	383.9	630.1	614.2	342.9
77.5°	16.9	18.0	22.0	25.5	35.1	39.6	36.1	141.9	191.7	180.2	82.9
80°	8.4	9.4	14.5	19.2	22.5	15.9	15.1	39.6	42.7	42.7	20.8
82.5°	2.9	3.7	7.8	12.7	11.0	6.1	7.1	10.2	11.4	12.0	6.1
85°	0.0	0.0	1.8	3.7	1.6	0.8	1.8	2.2	2.9	3.1	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.8
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-SA1B-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3
2.5°	208.6	199.0	184.5	171.4	161.4	152.1	144.9	139.2	138.2	134.9	135.3
5°	218.0	200.6	173.9	153.3	138.8	129.0	120.8	114.7	112.1	109.4	107.4
7.5°	232.5	207.4	169.8	144.7	127.8	112.7	100.0	89.8	84.9	81.8	79.8
10°	250.2	216.8	170.0	139.6	114.5	91.4	74.1	62.9	57.6	55.9	55.7
12.5°	271.5	228.6	171.7	131.2	95.3	68.0	54.9	49.8	48.2	46.7	46.7
15°	293.9	241.9	171.7	115.9	72.7	53.1	47.6	44.3	42.2	41.4	41.0
17.5°	317.6	254.3	167.6	94.9	55.7	46.7	42.2	39.2	37.6	36.3	35.9
20°	342.9	266.2	157.4	72.7	47.8	41.8	37.6	34.5	32.9	31.6	31.6
22.5°	368.6	277.2	140.8	55.9	42.2	37.1	33.1	30.2	28.6	27.4	27.4
25°	392.5	284.5	119.6	46.1	38.2	33.1	29.4	26.5	24.7	23.9	23.5
27.5°	414.7	289.2	96.1	40.6	34.3	29.6	25.7	23.1	21.6	21.0	20.6
30°	437.8	290.4	73.5	36.9	31.0	26.1	22.5	20.4	19.2	18.4	18.4
32.5°	460.3	289.0	56.1	33.9	28.2	23.1	20.0	18.2	17.1	16.5	16.3
35°	483.1	282.5	45.5	31.2	25.3	20.2	17.8	16.3	15.7	14.9	14.9
37.5°	508.0	273.7	39.6	28.6	22.5	18.2	15.9	14.9	14.1	13.5	13.3
40°	539.0	263.5	36.3	26.3	19.8	16.3	14.3	13.3	12.7	12.0	11.8
42.5°	575.8	253.5	34.7	23.9	17.8	14.5	12.9	11.6	11.0	10.2	10.0
45°	627.8	251.3	32.9	21.2	15.9	13.1	11.2	10.0	9.2	8.6	8.4
47.5°	711.5	257.6	29.8	18.4	14.1	11.4	9.6	8.6	7.6	6.9	6.5
50°	794.6	255.9	26.7	15.9	12.5	9.8	8.2	7.1	6.1	5.5	5.3
52.5°	839.9	248.2	23.9	14.1	10.8	8.4	6.9	5.7	5.1	4.5	4.3
55°	880.9	245.1	21.0	12.2	9.2	7.3	5.7	4.7	4.3	3.7	3.5
57.5°	961.3	252.3	18.6	10.6	8.0	6.3	4.9	3.9	3.5	2.9	2.7
60°	1045.4	253.1	15.9	9.2	6.9	5.3	3.9	3.1	2.7	2.0	1.8
62.5°	1089.3	232.5	13.1	7.8	5.7	4.5	3.3	2.4	2.0	1.2	1.2
65°	1052.6	188.0	11.0	6.3	4.5	3.5	2.4	1.8	1.2	0.6	0.2
67.5°	931.5	133.7	9.2	5.1	3.3	2.4	1.8	1.2	0.2	0.0	0.0
70°	682.1	76.3	7.1	3.7	2.4	1.6	1.2	0.6	0.0	0.0	0.0
72.5°	419.2	40.8	5.3	2.4	1.8	1.2	1.0	0.4	0.0	0.0	0.0
75°	159.0	19.6	3.3	1.6	1.4	1.0	0.6	0.2	0.0	0.0	0.0
77.5°	43.1	9.6	1.8	1.2	1.0	0.6	0.4	0.0	0.0	0.0	0.0
80°	11.2	4.5	1.2	0.8	0.6	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.9	2.0	0.6	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0
85°	1.6	0.8	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.2	0.2	0.2	0.2	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			

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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

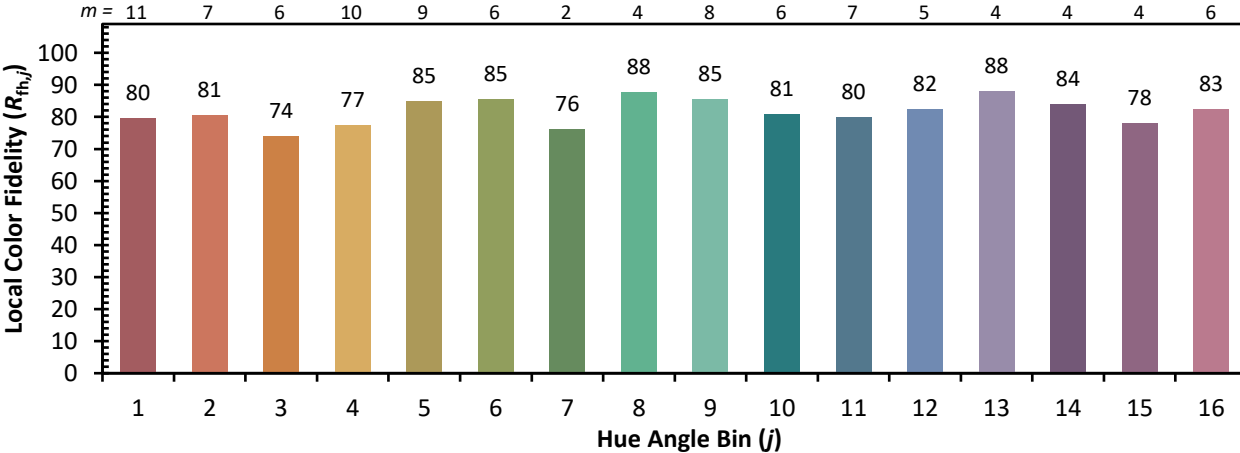


Individual Sample Fidelity Index ($R_{f,i}$)

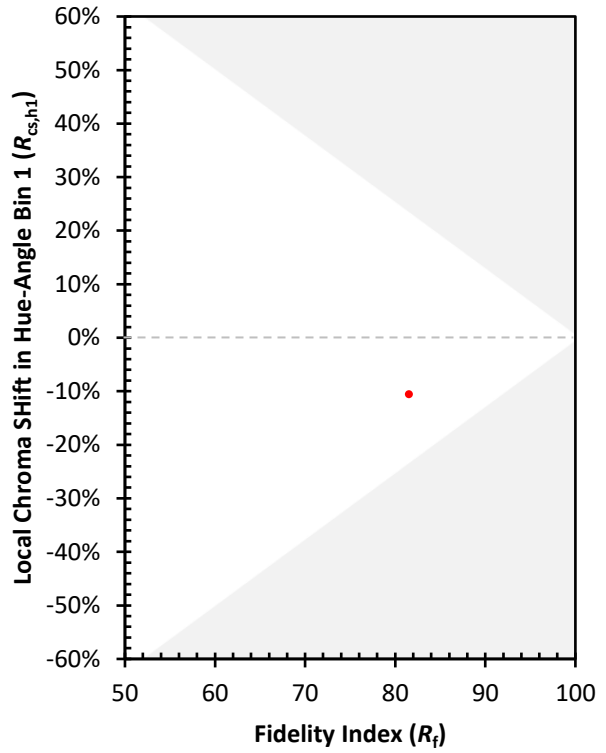
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)