

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: P630087

Luminaire Tested: GWS-SA1C-830-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-830-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2989 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

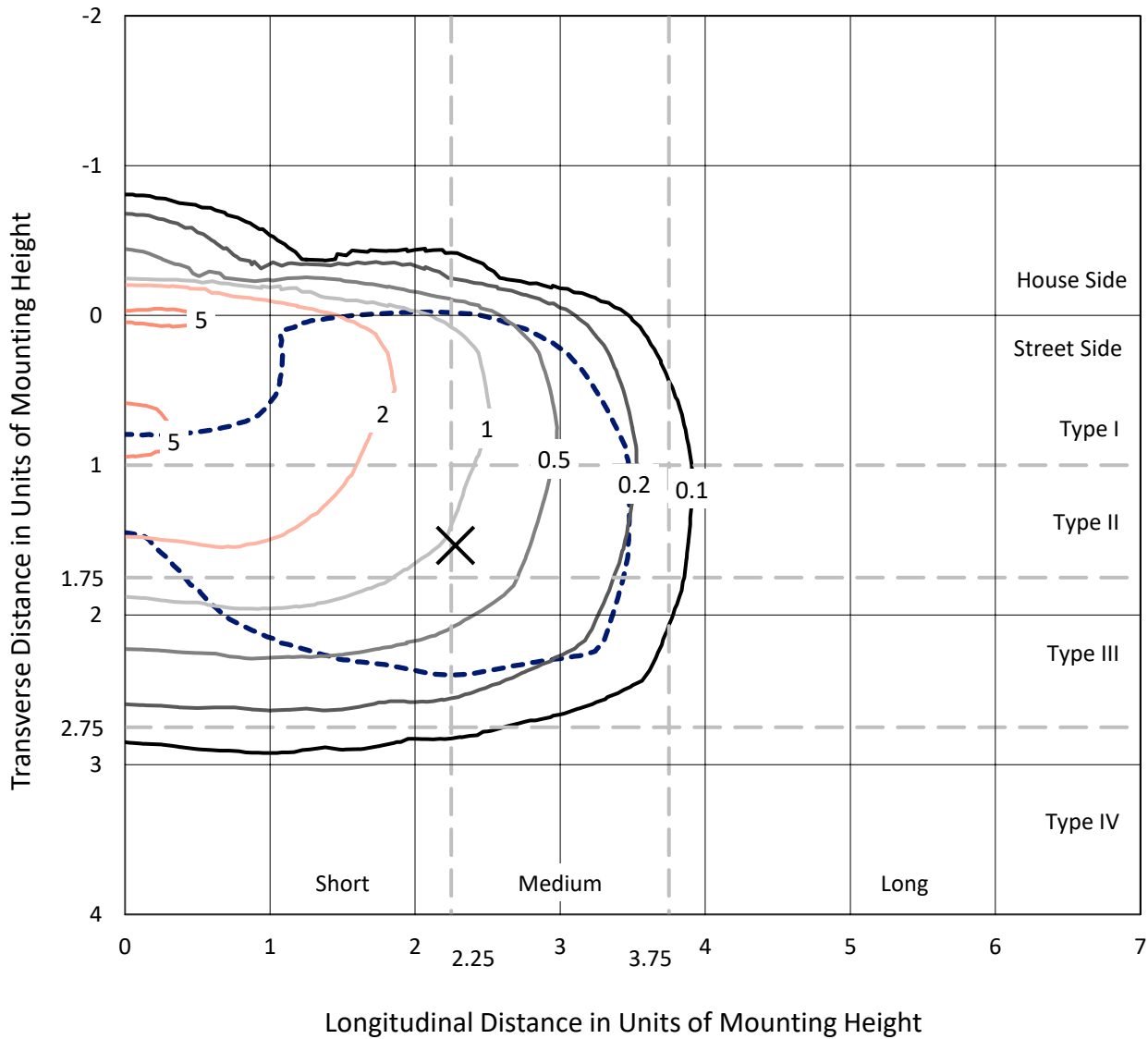
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630087
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Iso-Footcandle Lines of Horizontal Illumination

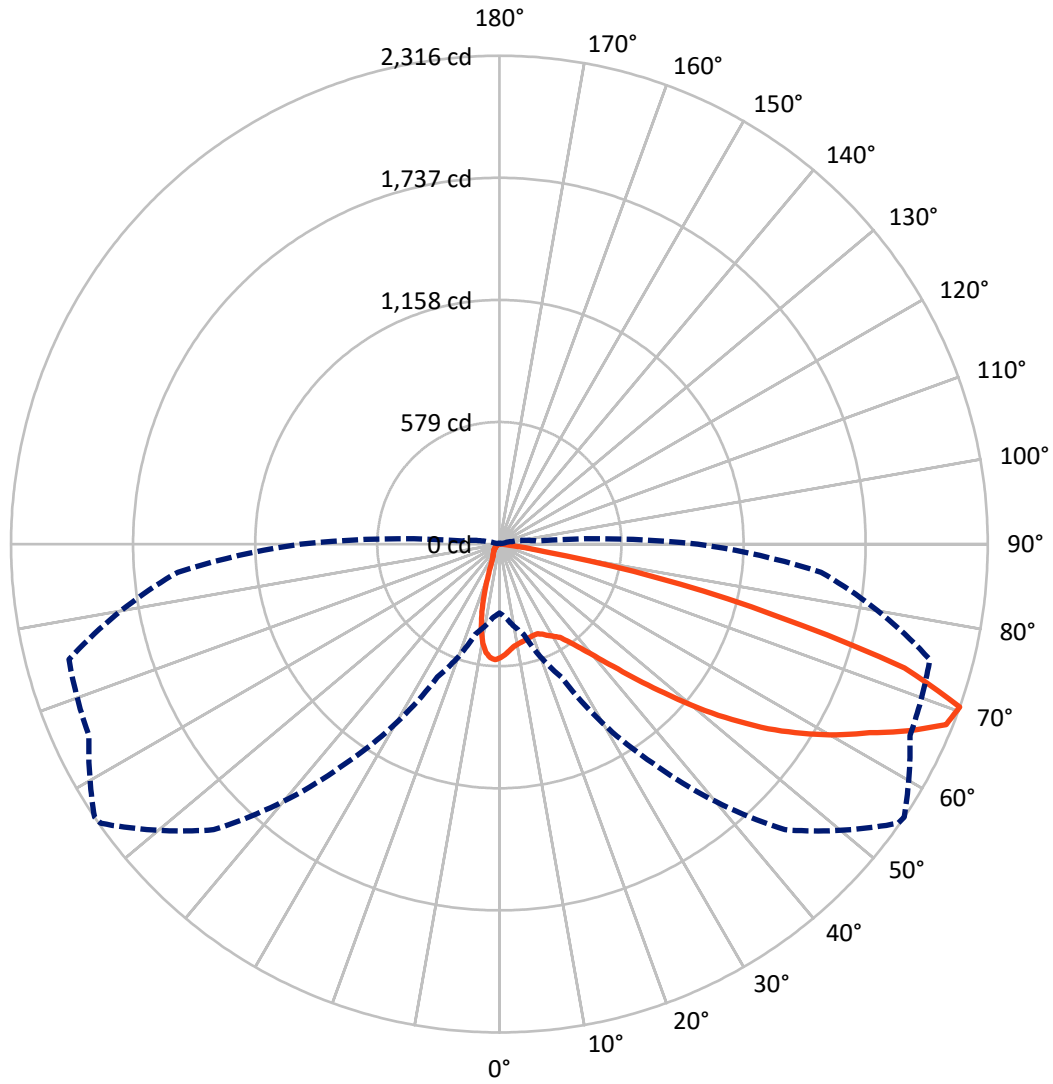
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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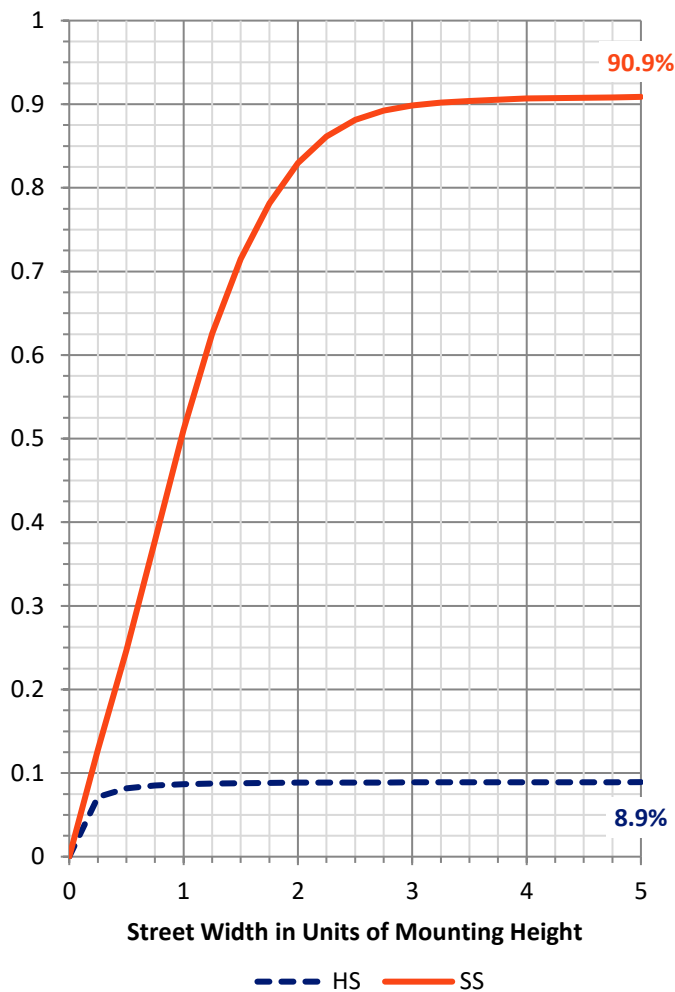
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	268.5	0.0	268.5
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	2720.5	0.0	2720.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	2989.0	0.0	2989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	1.5
10°-20°	104.1	3.5
20°-30°	164.9	5.5
30°-40°	284.3	9.5
40°-50°	480.1	16.1
50°-60°	705.4	23.6
60°-70°	836.3	28.0
70°-80°	356.6	11.9
80°-90°	11.2	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°	2989.0	100.0
0°-180°	2989.0	100.0

Coefficient of Utilization



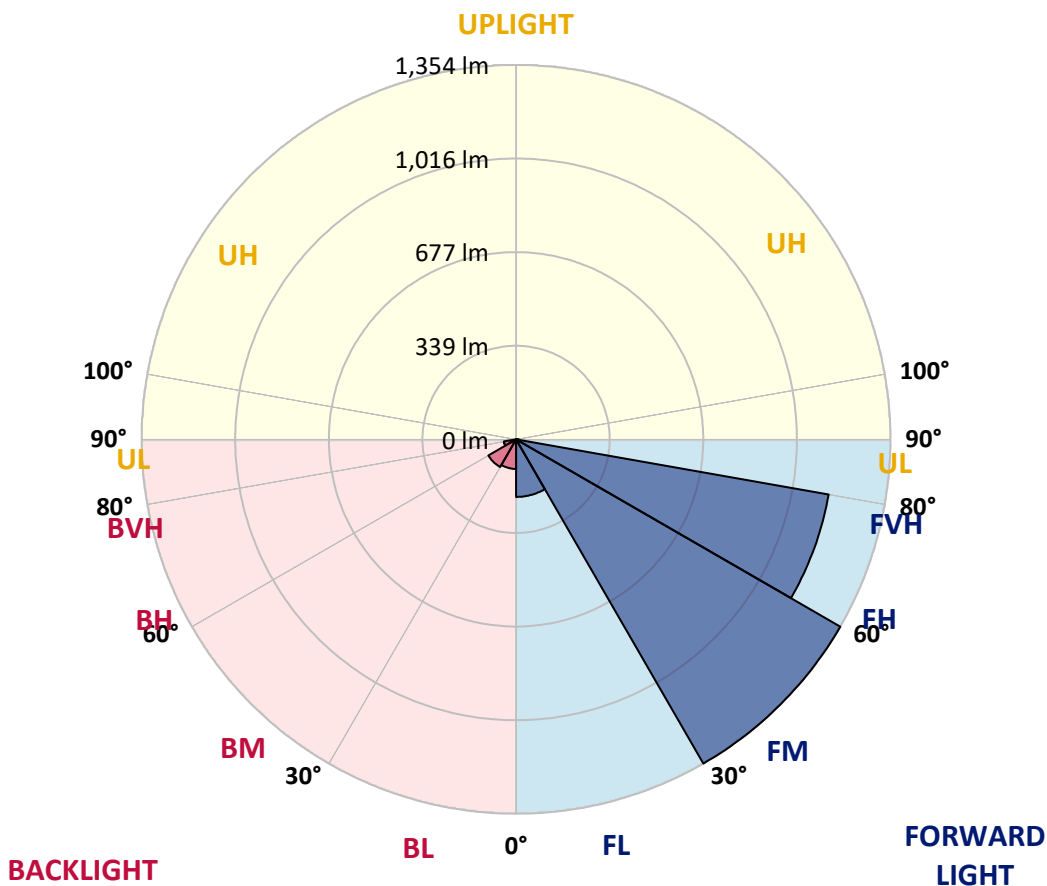
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.3	7.0			
FM (30°-60°)	1354.1	45.3			
FH (60°-80°)	1148.1	38.4			G1/1800
FVH (80°-90°)	10.1	0.3			G1/100
BL (0°-30°)	106.9	3.6	B0/110		
BM (30°-60°)	115.6	3.9	B0/220		
BH (60°-80°)	44.8	1.5	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type III Medium





REPORT NUMBER: P630087

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9
2.5°	501.7	500.9	501.4	505.6	513.2	516.8	522.8	523.9	528.8	535.1	537.6
5°	469.1	466.4	467.8	473.5	482.3	492.1	503.4	506.4	518.7	532.7	543.1
7.5°	439.3	436.3	439.6	448.6	460.9	471.6	488.3	490.2	509.9	534.6	553.5
10°	392.5	393.3	399.9	415.8	434.7	456.8	479.3	482.0	506.4	540.9	570.2
12.5°	356.7	354.7	361.9	379.9	406.5	438.8	472.4	476.0	506.6	550.4	591.5
15°	340.0	339.4	342.4	355.6	381.3	419.3	466.1	470.8	510.2	559.2	611.8
17.5°	340.5	339.7	339.4	347.1	366.2	404.8	459.3	465.3	513.2	568.8	633.1
20°	364.3	360.5	353.6	350.1	361.6	395.5	454.6	461.5	517.6	578.9	655.8
22.5°	414.1	415.5	397.2	378.0	372.5	396.6	454.1	462.0	527.2	594.8	683.7
25°	513.8	511.6	477.6	434.7	404.8	409.2	463.7	473.3	546.1	617.5	710.0
27.5°	638.6	640.5	594.0	525.5	463.1	435.2	481.2	490.8	568.0	631.7	727.5
30°	774.6	772.7	722.9	647.1	545.8	478.5	498.7	507.2	578.9	639.4	745.6
32.5°	903.3	898.9	849.6	770.2	651.2	546.6	522.8	527.7	593.4	656.1	770.0
35°	1013.0	1012.7	969.8	885.2	759.6	632.0	564.1	568.2	620.5	682.6	805.8
37.5°	1126.3	1122.5	1074.3	997.1	871.0	725.6	627.4	625.7	663.2	721.8	849.9
40°	1219.4	1216.9	1180.0	1105.8	986.7	829.1	704.0	699.1	713.9	776.0	911.2
42.5°	1288.4	1288.7	1277.2	1232.0	1109.4	948.7	800.3	792.7	792.4	857.8	992.2
45°	1340.7	1344.2	1361.5	1354.6	1254.2	1088.0	923.8	915.9	902.4	964.0	1085.0
47.5°	1365.0	1369.7	1421.7	1449.1	1380.9	1226.2	1070.8	1054.1	1027.8	1105.3	1188.7
50°	1362.6	1370.8	1443.3	1526.5	1495.9	1366.4	1230.9	1223.0	1180.0	1254.7	1291.4
52.5°	1306.7	1324.2	1444.7	1573.6	1584.3	1495.6	1396.5	1381.7	1360.9	1410.7	1387.7
55°	1155.1	1176.4	1386.9	1588.6	1653.2	1608.4	1558.5	1546.5	1512.0	1558.0	1471.8
57.5°	1072.7	1091.0	1265.4	1581.3	1711.8	1712.6	1702.8	1692.9	1664.5	1703.6	1570.3
60°	1023.2	1041.5	1200.5	1554.2	1764.9	1822.7	1838.3	1837.2	1796.1	1869.2	1685.8
62.5°	950.6	975.8	1132.9	1483.8	1802.7	1931.1	1978.1	1970.8	1925.0	2041.6	1800.2
65°	804.2	826.1	994.4	1367.8	1780.5	2020.8	2129.8	2133.6	2080.8	2204.0	1890.6
67.5°	563.9	580.0	747.2	1124.2	1630.0	2050.4	2285.0	2284.7	2194.7	2287.2	1850.6
70°	326.8	349.0	441.5	695.0	1268.1	1916.0	2308.2	2316.2	2148.4	2113.4	1531.4
72.5°	126.5	144.8	250.2	369.2	661.3	1467.7	1985.5	2008.8	1798.0	1630.3	1065.9
75°	37.8	42.2	117.7	196.5	265.5	708.9	1344.2	1350.8	1233.4	1016.9	546.3
77.5°	28.2	31.2	51.5	99.4	93.1	214.9	695.5	759.6	654.7	363.2	150.5
80°	19.2	22.7	36.7	48.4	34.5	57.2	195.4	214.6	199.8	81.6	37.8
82.5°	8.5	10.9	26.0	24.4	12.6	16.4	60.2	64.0	41.3	24.6	13.1
85°	0.8	1.1	9.9	10.7	4.7	3.8	12.6	12.6	9.0	8.5	5.5
87.5°	0.0	0.0	0.3	0.5	0.5	0.8	1.1	1.4	1.6	2.2	2.7
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-SA1C-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9
2.5°	543.9	540.6	544.7	548.0	548.8	542.8	539.2	534.0	532.9	533.2	531.8
5°	551.3	549.6	552.6	549.1	539.8	522.3	507.2	490.5	481.5	476.3	475.7
7.5°	564.9	564.1	560.8	544.7	515.7	476.8	439.3	402.6	379.9	371.7	370.3
10°	585.2	583.6	570.2	531.8	470.0	395.2	332.3	279.7	247.7	238.4	226.9
12.5°	608.5	605.2	575.9	504.2	401.0	297.5	219.0	160.1	132.5	124.3	124.3
15°	630.9	623.8	572.6	458.5	316.1	193.5	122.4	92.5	84.0	81.8	81.8
17.5°	653.9	640.2	559.7	396.1	218.4	114.4	81.6	75.8	74.7	75.0	75.3
20°	675.5	654.2	537.0	321.1	139.3	79.9	73.1	71.7	71.2	71.7	71.4
22.5°	699.1	667.0	502.5	239.2	90.6	72.0	69.5	68.4	67.9	68.7	68.7
25°	722.3	676.4	456.8	160.9	72.0	67.1	65.7	64.6	64.0	64.3	64.3
27.5°	734.4	672.8	396.9	102.6	64.6	62.1	60.8	59.4	58.6	58.3	58.6
30°	742.6	661.8	323.5	73.1	58.6	55.6	54.2	53.1	50.9	49.5	50.1
32.5°	755.5	650.9	243.9	61.3	53.6	49.0	46.8	44.1	41.1	39.7	39.7
35°	770.8	635.8	171.1	55.3	48.4	43.5	39.4	34.8	31.2	30.1	30.1
37.5°	791.0	621.6	113.9	51.2	44.1	38.9	33.1	27.6	23.8	23.3	23.0
40°	821.4	609.6	80.2	48.2	40.2	33.9	27.1	21.3	18.6	17.8	17.8
42.5°	860.8	597.2	63.5	45.2	37.0	29.3	21.6	17.0	14.8	14.2	14.0
45°	909.6	582.7	55.3	42.4	33.7	24.4	17.2	14.2	12.6	12.0	12.0
47.5°	962.4	563.0	51.5	38.9	29.8	19.7	14.5	12.3	11.5	11.2	10.9
50°	1014.4	536.5	48.2	35.6	25.5	16.1	12.6	11.2	10.7	10.4	10.4
52.5°	1059.8	505.6	44.1	31.8	20.8	14.0	11.2	10.4	9.9	9.3	9.0
55°	1098.7	471.9	38.9	27.4	17.0	12.3	10.4	9.6	9.0	8.5	8.2
57.5°	1148.8	452.7	31.2	22.2	14.0	10.9	9.6	8.8	8.2	7.4	7.4
60°	1204.4	438.8	23.3	17.5	12.0	10.1	8.8	7.9	7.4	6.6	6.6
62.5°	1249.0	418.0	18.3	14.2	10.4	9.0	7.9	7.1	6.6	5.7	5.7
65°	1265.9	375.0	15.1	11.2	8.5	7.9	7.1	6.6	5.7	4.9	4.9
67.5°	1189.3	289.0	12.6	9.0	7.1	6.8	6.3	6.0	4.9	4.4	4.1
70°	941.9	176.3	10.4	7.4	6.0	5.7	5.7	5.2	4.4	4.1	3.8
72.5°	645.4	90.9	8.5	6.0	5.2	5.2	4.9	4.7	4.1	3.8	3.8
75°	335.3	30.4	6.6	4.7	4.1	4.4	4.4	4.1	3.8	3.8	3.6
77.5°	96.1	13.7	4.9	3.6	3.3	3.3	3.6	3.6	3.6	3.3	3.3
80°	24.9	7.9	3.6	2.7	2.7	2.7	2.7	3.0	3.3	3.0	3.0
82.5°	10.1	4.4	2.5	2.2	2.2	2.2	2.2	2.5	2.7	2.7	2.7
85°	6.3	2.2	1.9	1.9	1.9	1.6	1.6	1.9	1.9	2.2	2.2
87.5°	3.8	1.6	1.6	1.6	1.6	1.4	1.4	1.4	1.4	1.4	1.4
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

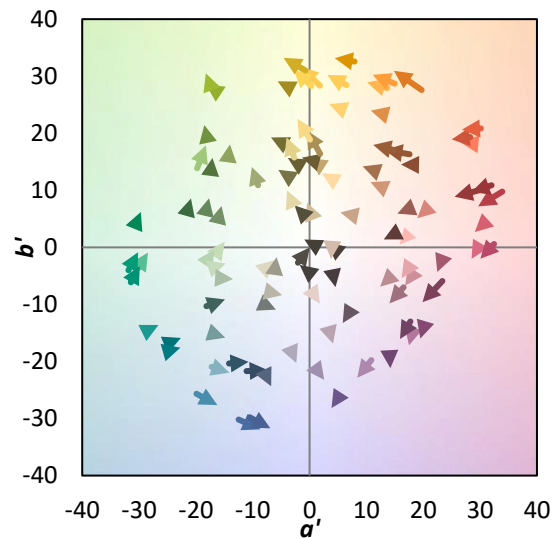
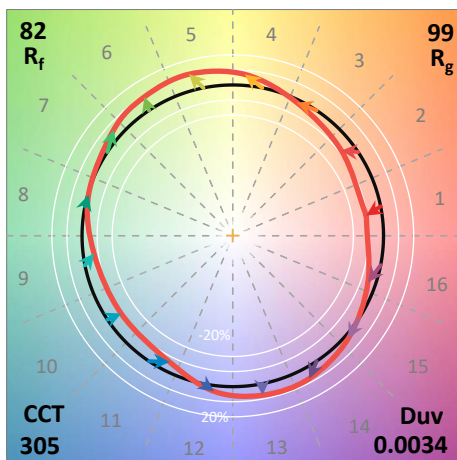
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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

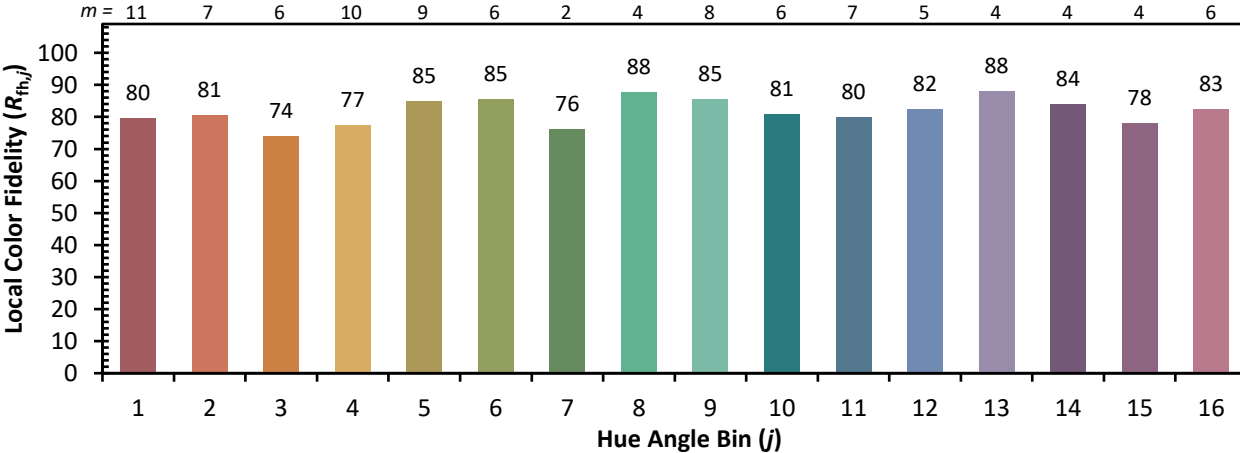


Individual Sample Fidelity Index ($R_{f,i}$)

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)