

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: P631074

Luminaire Tested: GWS-SA1E-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6023.6 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

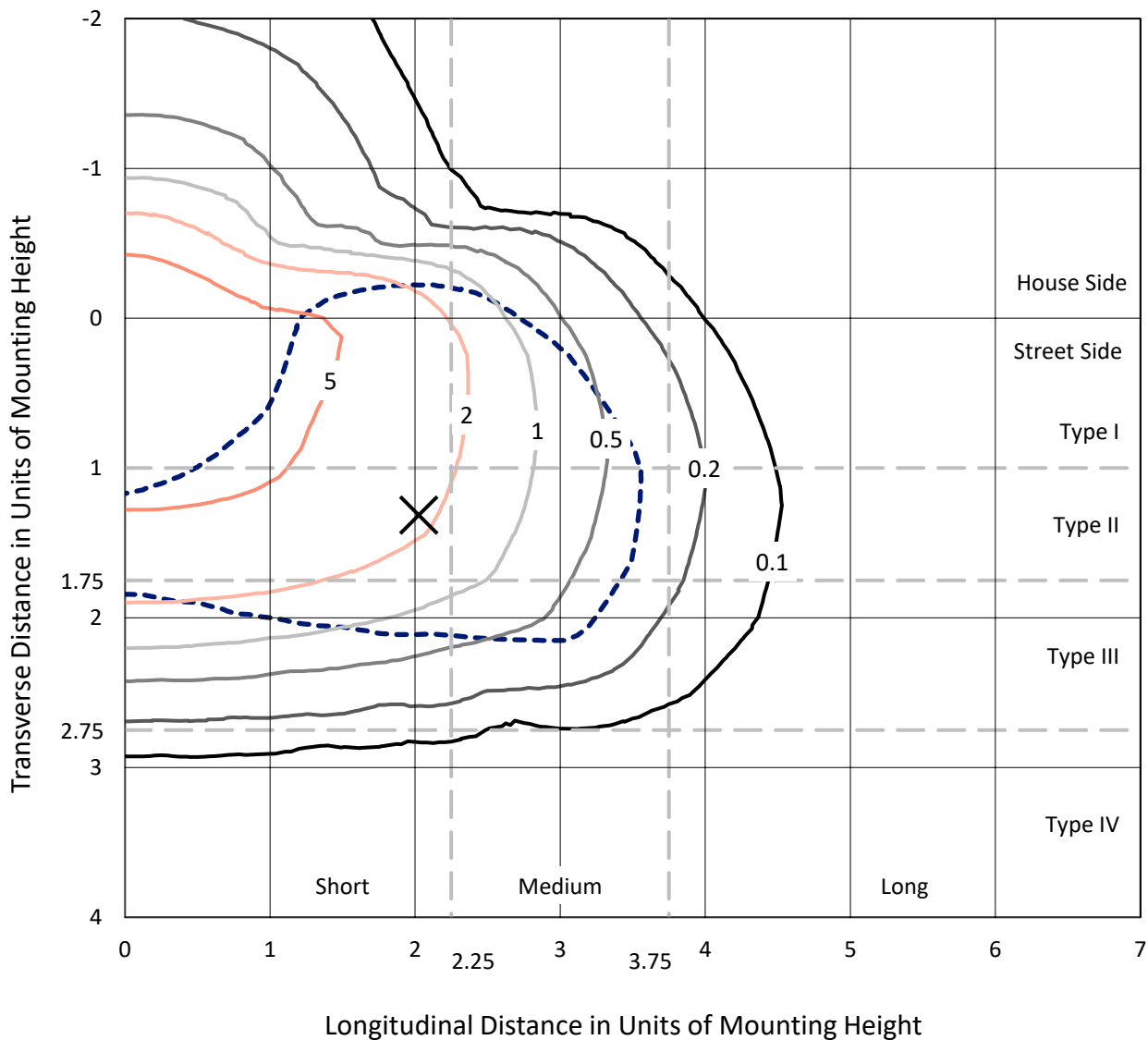
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

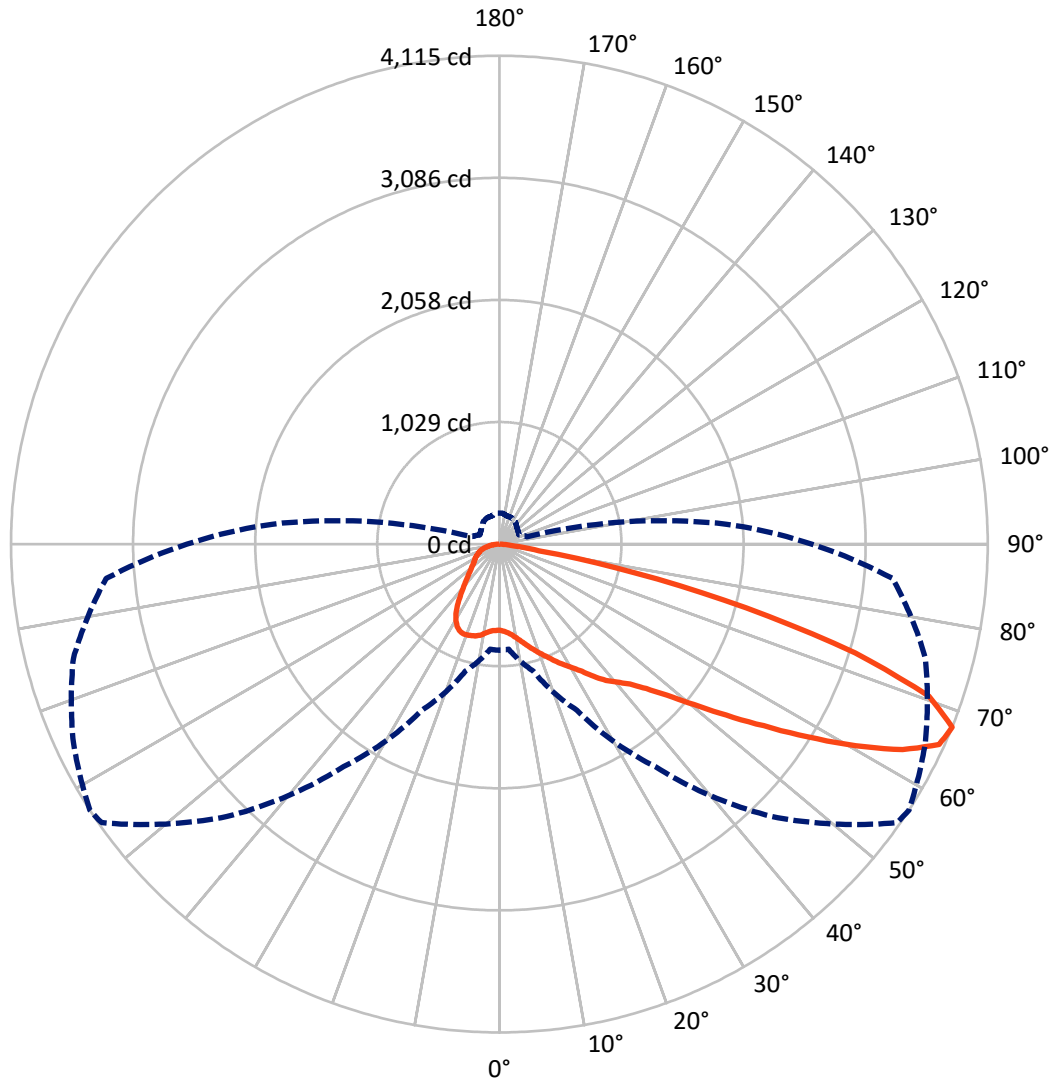
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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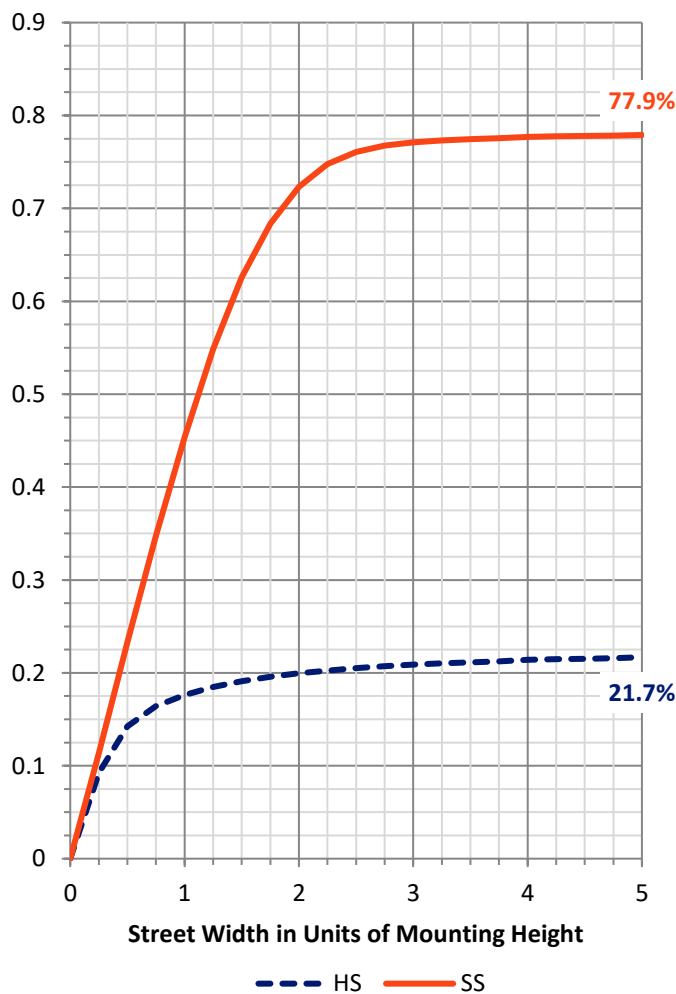
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1324.4	0.0	1324.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4699.2	0.0	4699.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	6023.6	0.0	6023.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	1.2
10°-20°	238.3	4.0
20°-30°	424.9	7.1
30°-40°	617.7	10.3
40°-50°	894.0	14.8
50°-60°	1399.1	23.2
60°-70°	1632.1	27.1
70°-80°	681.3	11.3
80°-90°	64.3	1.1
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°	6023.6	100.0
0°-180°	6023.6	100.0

Coefficient of Utilization



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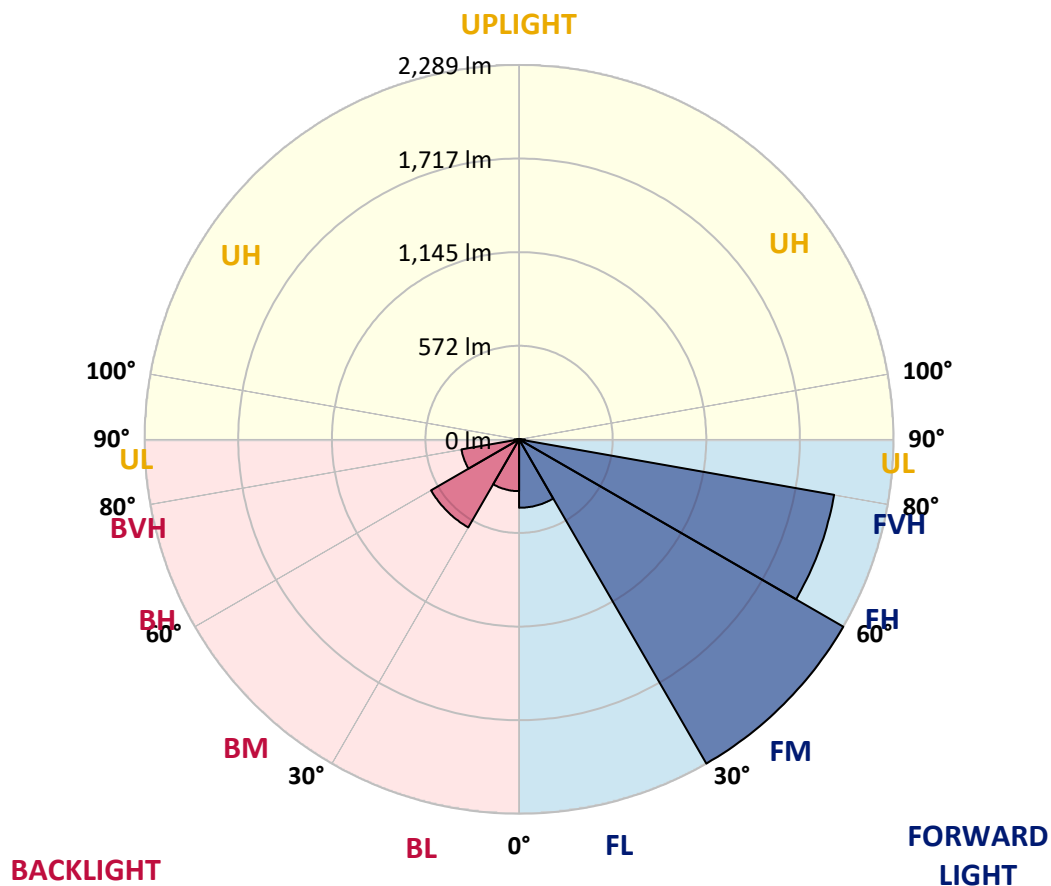
CATALOG NUMBER: GWS-SA1E-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.4	6.9			
FM (30°-60°)	2289.1	38.0			
FH (60°-80°)	1956.0	32.5			G2/5000
FVH (80°-90°)	35.8	0.6			G1/100
BL (0°-30°)	316.7	5.3	B1/500		
BM (30°-60°)	621.7	10.3	B1/1000		
BH (60°-80°)	357.5	5.9	B1/500		G1/500
BVH (80°-90°)	28.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8
2.5°	736.2	735.3	734.9	737.5	736.6	736.2	736.2	735.7	734.9	731.4	726.7
5°	756.4	754.7	753.0	755.1	753.4	751.7	751.3	750.4	747.4	742.2	734.9
7.5°	777.6	775.9	776.3	777.6	776.3	775.4	774.1	773.3	768.5	760.3	750.4
10°	807.4	807.4	808.2	809.5	809.9	808.7	806.1	804.8	799.2	788.8	775.0
12.5°	850.5	849.6	849.6	848.8	850.1	848.8	846.2	844.0	837.1	823.8	803.9
15°	907.5	904.0	901.0	895.4	893.7	888.9	889.8	888.5	882.0	863.9	838.9
17.5°	968.3	967.9	963.1	951.9	940.7	932.9	934.7	934.2	930.8	906.2	874.2
20°	1021.8	1024.0	1019.7	1011.0	995.9	981.3	980.4	982.6	978.2	953.6	909.2
22.5°	1081.8	1080.1	1075.8	1064.5	1053.3	1037.8	1032.6	1030.9	1029.2	1001.1	945.0
25°	1138.8	1143.9	1138.3	1128.0	1110.7	1093.9	1089.6	1091.3	1086.5	1049.4	983.4
27.5°	1210.8	1213.0	1209.5	1195.3	1180.6	1156.9	1148.7	1148.7	1147.0	1094.7	1013.6
30°	1287.6	1293.7	1287.6	1276.0	1260.9	1226.8	1209.1	1207.4	1202.2	1141.3	1049.0
32.5°	1364.9	1369.2	1364.9	1353.7	1336.4	1306.6	1281.2	1277.3	1270.4	1192.3	1085.3
35°	1433.5	1437.4	1436.5	1439.1	1424.9	1387.3	1371.8	1370.0	1351.9	1258.7	1134.4
37.5°	1508.6	1513.3	1506.8	1512.0	1506.4	1471.0	1466.3	1457.6	1431.8	1321.3	1186.2
40°	1594.0	1598.3	1588.0	1590.1	1583.6	1563.8	1539.6	1528.0	1489.6	1389.0	1267.8
42.5°	1685.5	1695.4	1700.2	1696.3	1681.2	1670.0	1627.7	1613.0	1581.1	1511.2	1402.0
45°	1818.0	1832.6	1839.5	1829.6	1823.1	1807.2	1755.4	1737.7	1720.9	1683.3	1589.3
47.5°	1960.8	1974.2	1996.2	2000.5	2005.7	1993.6	1920.7	1903.4	1906.4	1902.1	1819.7
50°	2074.7	2085.9	2135.6	2188.6	2232.6	2236.1	2142.9	2124.3	2140.7	2154.5	2097.1
52.5°	2157.6	2167.5	2233.1	2342.7	2442.4	2516.1	2415.6	2394.5	2407.8	2438.9	2412.6
55°	2224.9	2238.7	2307.3	2475.6	2677.1	2793.6	2729.3	2702.6	2696.9	2735.4	2750.5
57.5°	2260.3	2264.6	2360.8	2579.6	2849.3	3065.9	3093.9	3063.7	3010.2	3031.4	3109.9
60°	2179.6	2186.9	2318.5	2606.3	2985.2	3336.0	3476.7	3451.7	3337.7	3349.4	3436.1
62.5°	1956.5	1966.8	2125.2	2479.0	2996.4	3516.4	3830.1	3814.1	3661.4	3598.4	3624.3
65°	1569.4	1572.9	1736.8	2164.0	2773.3	3538.8	4076.5	4072.6	3887.5	3739.9	3629.0
67.5°	895.0	888.9	1108.1	1543.5	2288.7	3247.1	4092.5	4115.3	3960.8	3716.6	3327.0
70°	387.9	388.8	489.8	761.6	1481.4	2624.5	3801.2	3840.5	3748.5	3328.7	2646.9
72.5°	179.5	182.1	225.7	329.7	632.6	1628.1	3099.5	3134.9	3056.0	2664.2	1925.8
75°	126.9	129.0	150.6	189.0	290.8	634.3	2073.4	2147.6	2186.0	1992.7	1269.1
77.5°	96.2	99.2	110.0	131.2	179.5	224.8	992.0	1169.0	1392.5	1239.7	653.7
80°	61.3	61.3	72.9	87.6	109.6	116.9	286.5	339.6	681.4	510.9	256.7
82.5°	41.4	42.7	49.6	55.7	63.0	66.5	123.0	131.2	196.8	173.9	105.7
85°	22.0	22.9	25.9	25.5	30.2	26.3	51.8	51.3	72.1	79.0	40.1
87.5°	0.0	0.0	0.4	0.4	0.9	1.3	5.6	6.0	15.1	24.2	13.4
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-SA1E-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8
2.5°	729.3	724.1	726.7	725.8	728.4	728.4	723.6	722.4	722.8	717.6	715.9
5°	735.7	729.7	731.0	729.3	731.8	734.0	731.8	731.8	734.4	730.5	728.4
7.5°	750.4	743.5	743.5	741.3	744.4	746.1	744.4	746.9	751.7	747.8	745.7
10°	773.7	765.5	765.9	763.3	764.6	763.8	756.9	754.7	756.0	752.6	750.8
12.5°	803.9	792.7	792.7	787.5	784.5	775.4	761.2	756.0	756.9	753.9	752.6
15°	832.8	822.5	820.3	809.9	796.1	779.3	766.4	762.9	763.8	760.8	758.6
17.5°	866.9	853.5	845.8	826.8	801.3	784.1	771.1	762.9	756.0	749.1	747.4
20°	898.4	881.6	867.3	838.0	806.9	783.2	759.0	738.7	721.9	712.9	710.7
22.5°	930.8	909.2	884.2	845.8	806.5	767.7	723.2	692.6	667.5	654.2	656.8
25°	961.4	934.2	900.1	853.1	792.7	733.1	672.7	627.0	598.5	588.2	585.1
27.5°	986.9	953.2	914.8	849.6	764.2	683.5	603.7	552.8	525.1	513.5	510.5
30°	1015.3	977.4	935.9	833.7	719.3	614.0	525.6	484.2	464.3	453.1	453.5
32.5°	1048.1	1008.4	965.7	803.0	661.9	539.0	461.3	432.8	416.8	405.6	403.9
35°	1092.2	1052.9	985.6	756.9	589.0	469.9	417.3	394.0	374.1	359.4	356.4
37.5°	1146.5	1119.8	987.7	695.2	510.9	422.5	385.8	360.7	336.6	317.2	315.0
40°	1239.7	1209.1	970.0	617.9	444.5	391.8	359.4	330.5	302.5	280.9	277.9
42.5°	1372.6	1309.6	932.1	530.8	394.4	367.6	334.4	297.7	269.3	254.2	252.0
45°	1541.8	1421.8	875.1	448.8	357.3	343.9	308.1	269.7	254.6	243.8	241.6
47.5°	1748.9	1552.6	809.5	384.9	328.4	322.3	281.3	260.2	246.8	237.8	235.6
50°	1996.6	1719.1	755.6	334.9	302.5	297.3	272.7	254.6	243.8	236.5	234.7
52.5°	2279.2	1904.3	729.3	299.0	280.1	274.9	269.7	253.3	244.2	238.6	236.5
55°	2572.7	2099.3	704.7	271.4	261.1	264.1	270.1	257.6	250.7	243.4	241.2
57.5°	2856.2	2282.3	644.2	249.8	247.3	258.9	272.3	261.9	253.7	246.4	243.8
60°	3051.7	2382.4	542.0	232.6	236.9	252.4	266.7	255.5	245.1	242.1	240.8
62.5°	3104.3	2370.3	420.7	214.9	224.4	238.2	252.0	244.7	233.9	238.6	239.1
65°	2981.3	2240.8	315.9	197.6	208.0	219.6	236.9	233.9	230.0	242.9	243.4
67.5°	2633.1	1922.8	240.8	182.5	191.2	205.4	232.2	244.7	245.5	261.9	260.2
70°	1992.3	1436.5	188.6	168.3	178.2	205.4	247.3	252.9	242.5	257.6	254.2
72.5°	1377.4	948.0	160.5	155.8	162.2	195.9	246.8	246.8	235.6	235.6	229.1
75°	855.7	557.5	139.8	139.8	139.8	171.3	239.9	227.4	207.6	198.5	193.3
77.5°	422.5	271.0	117.4	121.7	116.9	143.3	195.9	186.0	173.9	164.4	161.0
80°	180.4	135.5	94.9	99.7	94.1	107.9	155.3	153.2	141.5	129.0	125.1
82.5°	82.9	69.9	75.9	78.1	68.6	81.1	113.5	113.5	107.0	89.8	83.3
85°	35.4	37.1	52.6	52.6	43.2	45.7	60.8	57.8	51.8	42.3	38.8
87.5°	12.1	18.1	26.8	23.3	9.1	3.9	2.2	0.9	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



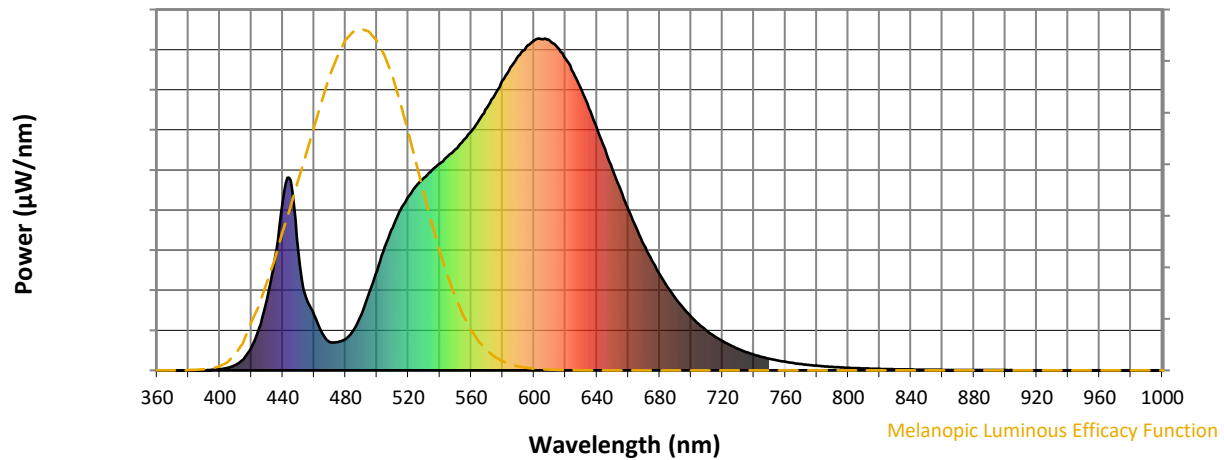
Scotopic Lumens: NR

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

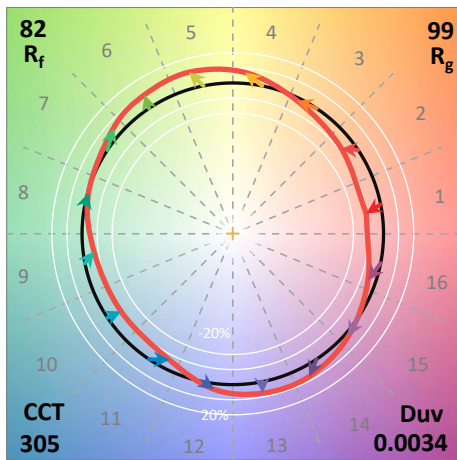
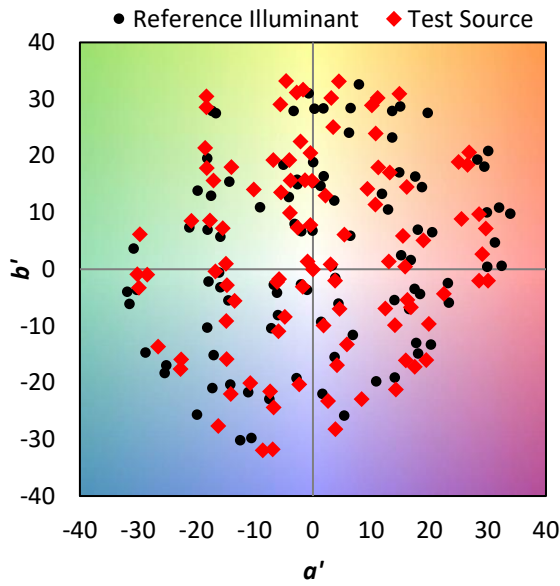
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

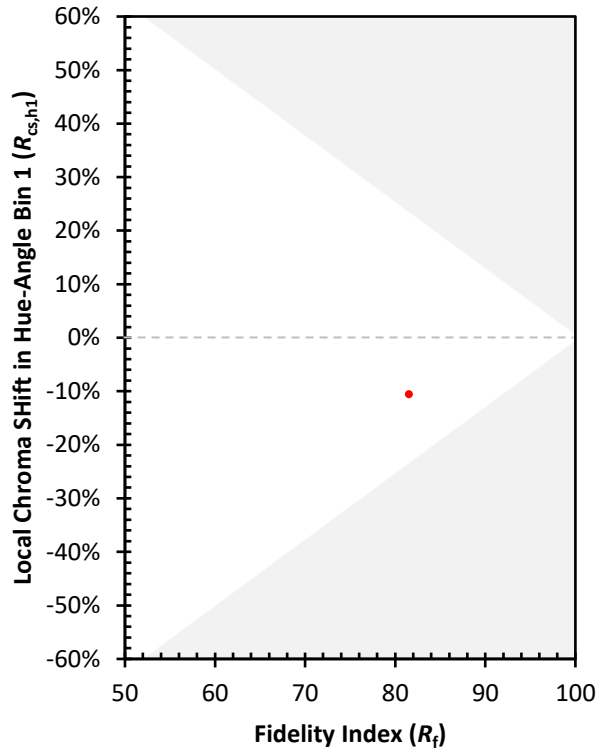
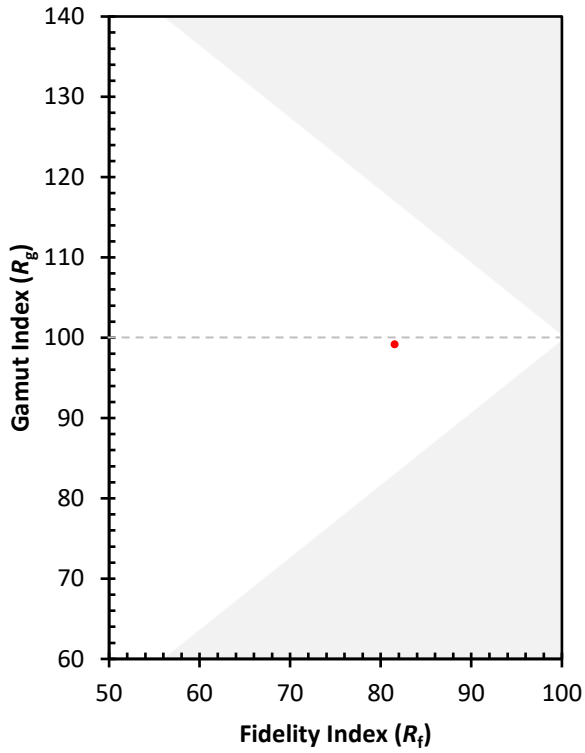
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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