

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: P635024

Luminaire Tested: GWS-SA3C-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9238.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

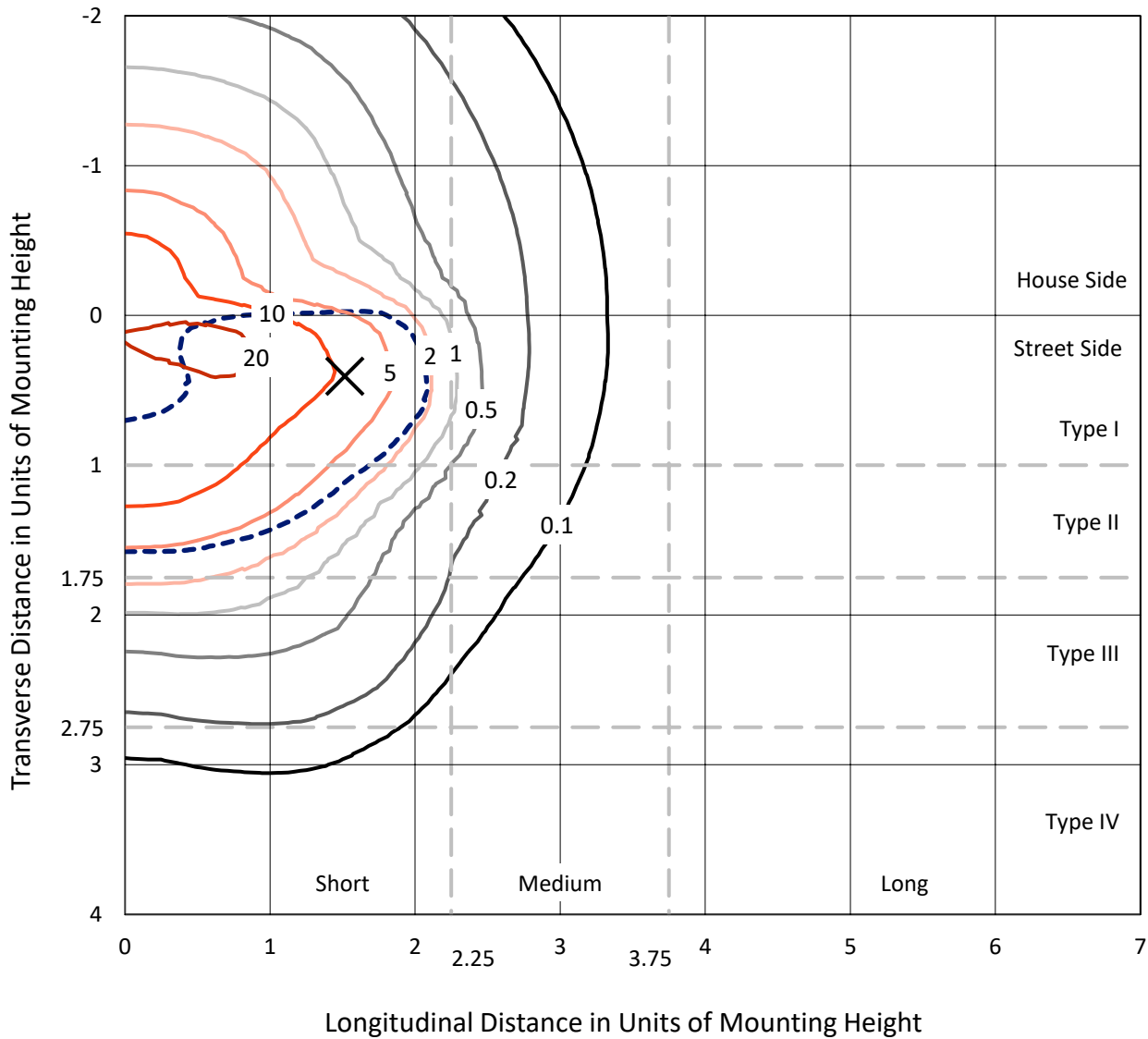
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635024
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Iso-Footcandle Lines of Horizontal Illumination

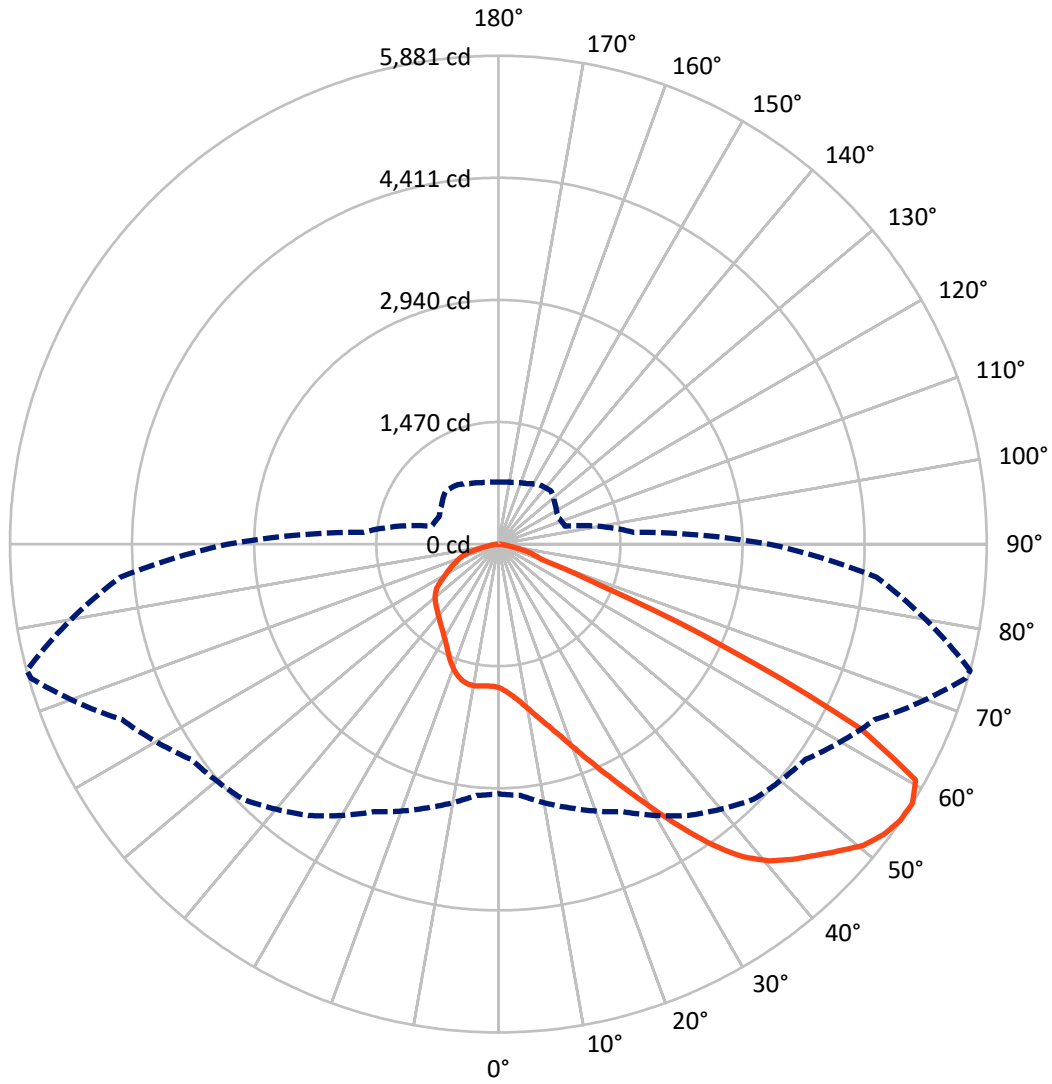
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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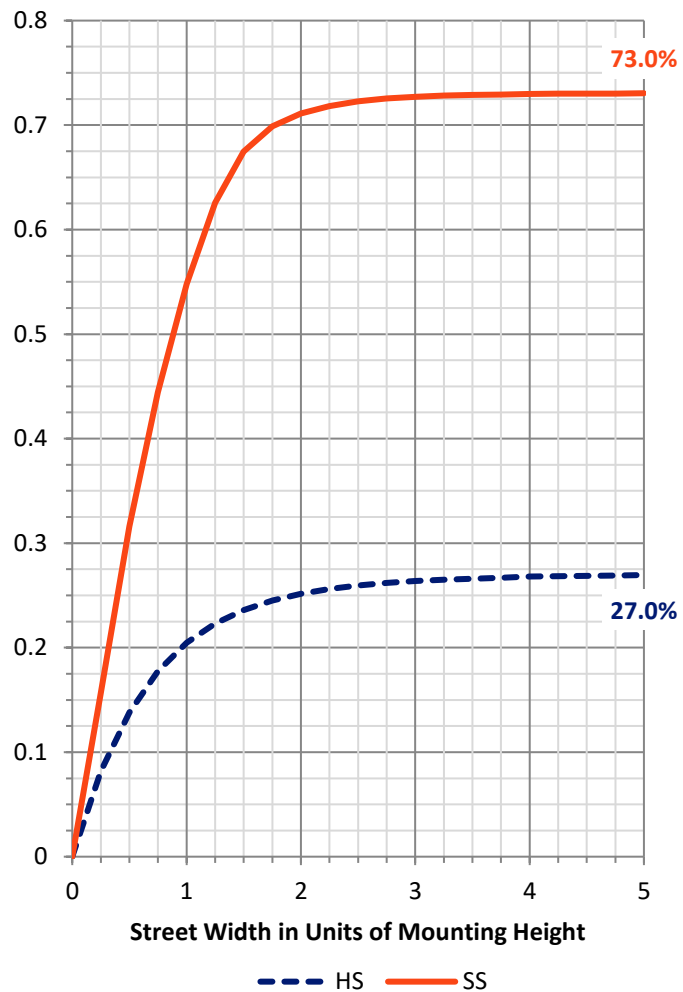
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2499.3	0.0	2499.3
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	6739.5	0.0	6739.5
	% Fixture	72.9	0.0	72.9
Total	Lumens	9238.7	0.0	9238.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	1.9
10°-20°	551.2	6.0
20°-30°	977.6	10.6
30°-40°	1496.6	16.2
40°-50°	2083.8	22.6
50°-60°	2387.7	25.8
60°-70°	1226.8	13.3
70°-80°	308.9	3.3
80°-90°	33.0	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°	9238.7	100.0
0°-180°	9238.7	100.0

Coefficient of Utilization



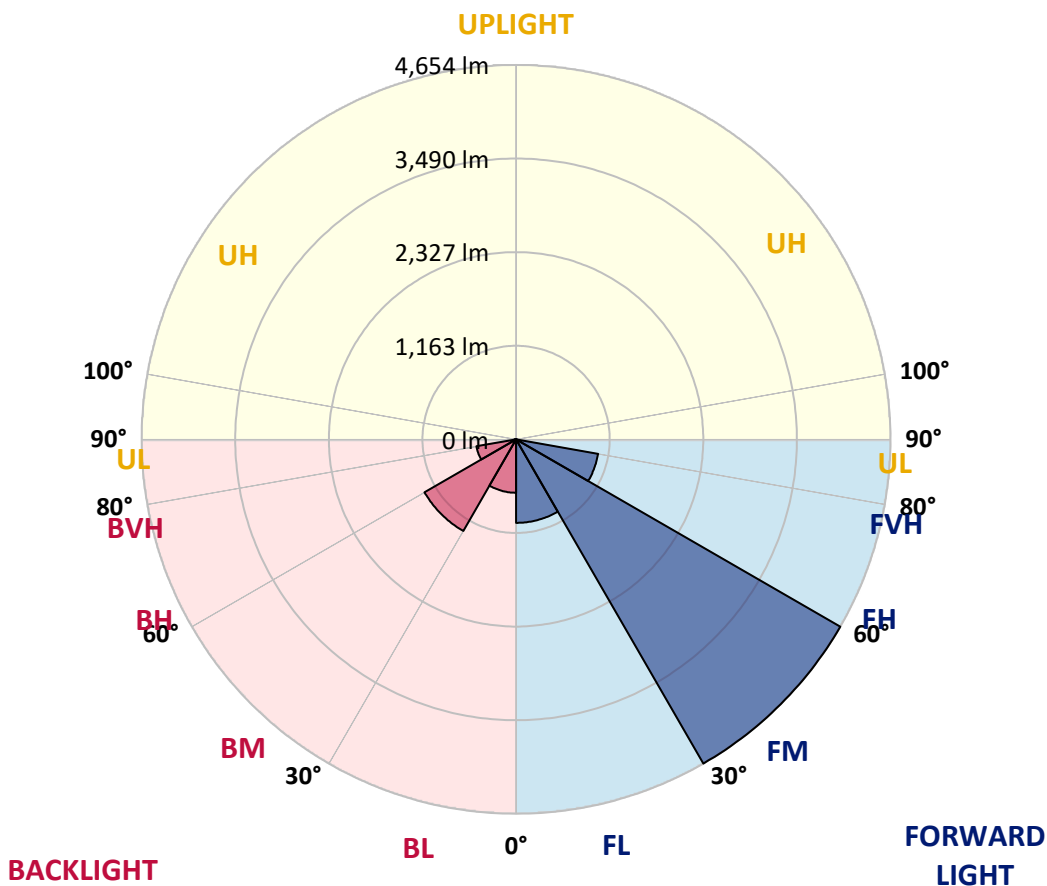
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.0	11.2			
FM (30°-60°)	4653.6	50.4			
FH (60°-80°)	1035.6	11.2			G1/1800
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	664.0	7.2	B2/1000		
BM (30°-60°)	1314.4	14.2	B2/2500		
BH (60°-80°)	500.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	20.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2
2.5°	1858.9	1863.6	1858.9	1866.8	1850.9	1843.8	1826.3	1800.1	1779.4	1776.3	1753.2
5°	2003.5	2013.8	2007.4	2004.3	1982.8	1966.9	1940.7	1888.3	1845.4	1839.0	1793.7
7.5°	2096.4	2103.6	2103.6	2105.9	2098.0	2079.7	2051.9	1990.0	1929.6	1920.0	1851.7
10°	2127.4	2132.9	2143.3	2163.1	2179.0	2184.6	2166.3	2106.7	2032.9	2023.3	1928.0
12.5°	2134.5	2140.9	2156.8	2193.3	2237.0	2276.7	2279.9	2236.2	2153.6	2143.3	2016.2
15°	2148.0	2154.4	2175.8	2221.1	2285.5	2361.7	2408.6	2378.4	2287.1	2275.9	2116.3
17.5°	2146.4	2153.6	2185.4	2245.7	2332.3	2442.8	2533.3	2546.0	2451.5	2432.4	2229.9
20°	2142.5	2148.8	2183.0	2256.9	2364.1	2515.8	2679.5	2745.4	2643.7	2626.3	2362.5
22.5°	2174.3	2181.4	2207.6	2268.8	2380.8	2572.2	2814.5	2973.4	2871.7	2847.1	2515.0
25°	2245.7	2256.1	2272.0	2314.1	2411.0	2622.3	2952.8	3231.6	3127.5	3098.1	2681.1
27.5°	2356.2	2368.9	2391.1	2411.0	2478.5	2685.8	3090.2	3520.7	3416.7	3385.7	2856.6
30°	2491.2	2507.9	2536.5	2550.0	2596.1	2779.6	3239.5	3818.6	3758.3	3715.4	3054.4
32.5°	2677.9	2700.9	2727.9	2731.9	2759.7	2921.8	3387.3	4114.2	4113.4	4083.2	3279.3
35°	2921.0	2945.6	2951.2	2956.7	2970.2	3117.2	3566.0	4383.5	4487.5	4452.6	3523.9
37.5°	3186.3	3222.1	3230.8	3206.2	3225.2	3352.3	3767.0	4599.5	4813.2	4775.9	3760.7
40°	3469.9	3484.2	3508.0	3469.1	3492.9	3621.6	3964.0	4737.8	5056.3	5016.6	3947.3
42.5°	3673.3	3699.5	3735.2	3720.9	3734.4	3852.0	4102.2	4804.5	5229.5	5189.8	4081.6
45°	3894.1	3902.1	3925.1	3921.9	3929.9	4039.5	4201.5	4833.9	5384.4	5348.6	4196.0
47.5°	4086.4	4098.3	4113.4	4095.9	4078.4	4149.9	4282.6	4859.3	5563.1	5520.2	4315.9
50°	4271.4	4281.8	4300.0	4249.2	4184.1	4202.3	4322.3	4894.3	5730.7	5700.6	4410.5
52.5°	4305.6	4316.7	4402.5	4412.8	4329.4	4265.1	4392.2	4971.3	5829.3	5810.2	4444.6
55°	3875.8	3895.7	4066.5	4262.7	4468.5	4447.8	4504.2	5011.8	5868.2	5872.9	4505.8
57.5°	3008.4	3037.0	3286.4	3555.7	3988.6	4346.9	4518.5	5001.5	5854.7	5880.9	4568.6
60°	1973.3	1990.0	2285.5	2587.3	3036.2	3531.9	4044.3	4815.6	5734.7	5772.1	4552.7
62.5°	1191.6	1210.7	1448.2	1677.0	1941.5	2272.8	2743.0	3870.3	4806.9	4890.3	3646.3
65°	831.7	857.1	1065.3	1253.6	1344.9	1276.6	1389.4	2161.5	2994.9	3029.8	2228.3
67.5°	602.9	620.4	791.2	1015.2	1116.1	901.6	687.1	957.2	1304.4	1317.1	919.1
70°	394.8	414.7	569.6	772.9	911.2	730.8	514.0	517.9	548.9	555.3	533.8
72.5°	216.9	228.8	351.9	513.2	538.6	436.9	401.2	430.6	452.0	452.0	457.6
75°	112.0	122.3	143.8	169.2	204.2	239.1	289.2	332.9	355.9	357.5	355.1
77.5°	57.2	61.2	77.1	83.4	91.4	106.4	138.2	177.1	197.8	205.7	204.2
80°	27.0	28.6	32.6	38.1	46.9	59.6	74.7	89.0	101.7	103.3	112.0
82.5°	14.3	15.9	17.5	20.7	25.4	31.8	43.7	52.4	60.4	62.0	69.1
85°	5.6	6.4	7.1	7.9	11.1	13.5	18.3	24.6	30.2	30.2	35.7
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	3.2	4.0	5.6	5.6	9.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2	1730.2
2.5°	1747.7	1724.6	1714.3	1697.6	1684.1	1669.0	1657.1	1648.4	1642.8	1639.6	1636.4
5°	1776.3	1741.3	1713.5	1680.1	1657.1	1634.9	1616.6	1603.9	1597.5	1592.8	1589.6
7.5°	1820.7	1773.9	1721.4	1669.8	1629.3	1593.6	1570.5	1557.0	1548.3	1545.1	1542.7
10°	1881.9	1816.8	1730.2	1648.4	1588.0	1549.1	1533.2	1526.8	1527.6	1526.0	1525.2
12.5°	1951.0	1862.1	1727.8	1610.2	1543.5	1520.5	1521.3	1531.6	1543.5	1546.7	1547.5
15°	2025.7	1906.5	1704.8	1561.0	1508.6	1510.9	1531.6	1556.2	1578.5	1587.2	1588.8
17.5°	2106.7	1943.9	1662.7	1507.0	1480.0	1505.4	1543.5	1584.0	1616.6	1630.9	1634.9
20°	2197.3	1975.7	1603.1	1453.7	1452.9	1495.0	1550.7	1603.9	1645.2	1664.3	1667.4
22.5°	2293.4	1995.5	1530.0	1404.5	1425.1	1481.5	1545.1	1600.7	1644.4	1663.5	1667.4
25°	2390.3	2001.9	1449.8	1359.2	1396.5	1460.1	1518.1	1562.6	1603.9	1620.6	1623.7
27.5°	2480.9	1983.6	1373.5	1320.3	1370.3	1428.3	1467.2	1491.1	1519.7	1532.4	1534.8
30°	2573.0	1947.1	1309.2	1289.3	1340.9	1384.6	1402.1	1403.7	1414.8	1414.8	1416.4
32.5°	2666.0	1893.0	1252.8	1259.1	1304.4	1333.0	1335.4	1317.1	1303.6	1281.4	1280.6
35°	2773.2	1838.2	1206.7	1225.0	1261.5	1279.0	1271.8	1236.9	1204.3	1167.8	1166.2
37.5°	2872.5	1781.8	1167.8	1190.0	1213.0	1225.7	1209.1	1167.0	1140.0	1102.6	1097.1
40°	2954.3	1731.0	1130.4	1153.5	1164.6	1175.7	1148.7	1114.5	1118.5	1097.9	1097.1
42.5°	3002.0	1681.7	1095.5	1112.9	1120.1	1128.0	1104.2	1078.8	1100.2	1084.3	1085.1
45°	3037.0	1638.8	1063.7	1070.0	1087.5	1099.4	1077.2	1048.6	1053.4	992.2	977.9
47.5°	3076.7	1615.0	1033.5	1027.1	1058.1	1078.8	1044.6	1003.3	974.7	914.3	908.8
50°	3118.8	1606.3	1001.7	984.3	1021.6	1041.4	1001.7	950.1	912.8	880.2	877.0
52.5°	3133.1	1605.5	962.0	932.6	970.0	997.8	964.4	912.0	867.5	835.7	834.1
55°	3189.5	1628.5	911.2	861.9	896.9	954.1	929.4	854.0	818.2	803.9	802.3
57.5°	3255.4	1632.5	830.9	784.9	833.3	900.8	869.9	804.7	765.8	748.3	746.7
60°	3228.4	1534.8	745.1	726.1	779.3	850.8	822.2	765.8	720.5	703.8	702.2
62.5°	2460.2	1083.6	682.4	675.2	721.3	778.5	772.9	714.2	671.3	659.3	657.8
65°	1480.0	761.0	622.0	621.2	653.8	708.6	715.7	668.1	622.8	606.1	606.1
67.5°	731.6	582.3	553.7	549.7	570.4	609.3	639.5	600.6	562.4	546.5	544.2
70°	517.1	513.2	503.6	492.5	496.5	512.4	525.1	492.5	452.0	436.1	432.9
72.5°	447.2	448.0	441.7	432.9	429.8	418.6	407.5	383.7	359.1	342.4	344.0
75°	347.1	348.7	352.7	349.5	340.8	328.9	317.0	286.8	266.9	251.0	247.9
77.5°	202.6	210.5	223.2	220.0	221.6	205.0	200.2	170.8	152.5	141.4	139.0
80°	114.4	119.2	124.7	128.7	123.9	116.8	106.4	90.6	85.0	77.1	75.5
82.5°	69.1	73.9	76.3	79.4	77.9	68.3	60.4	50.0	45.3	41.3	40.5
85°	35.0	38.1	40.5	42.1	37.3	31.0	27.8	22.2	19.1	16.7	16.7
87.5°	8.7	9.5	11.1	9.5	8.7	4.0	3.2	0.8	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			

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)