

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: P630583

Luminaire Tested: GWS-SA1D-830-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4896.9 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

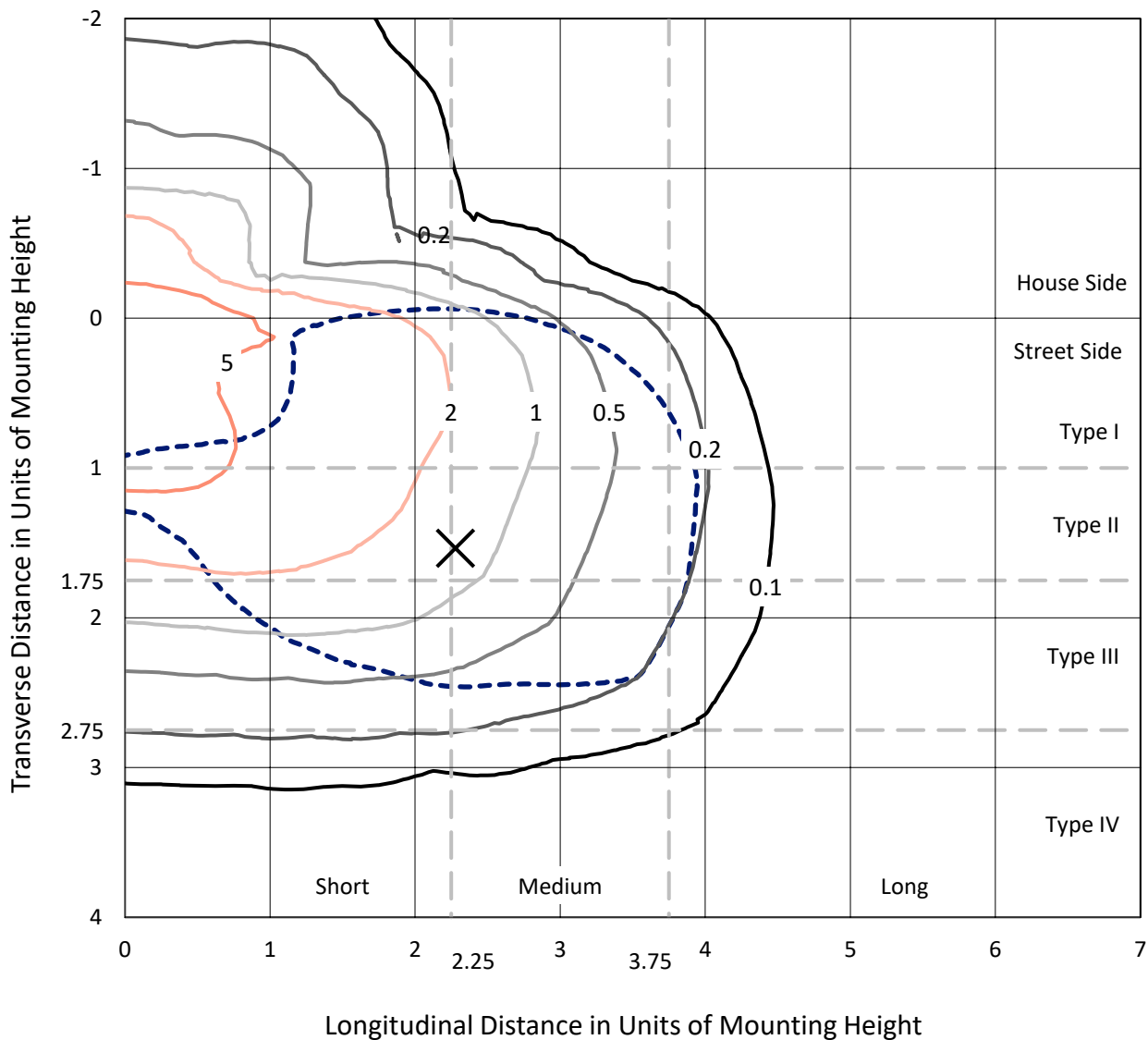
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630583
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Iso-Footcandle Lines of Horizontal Illumination

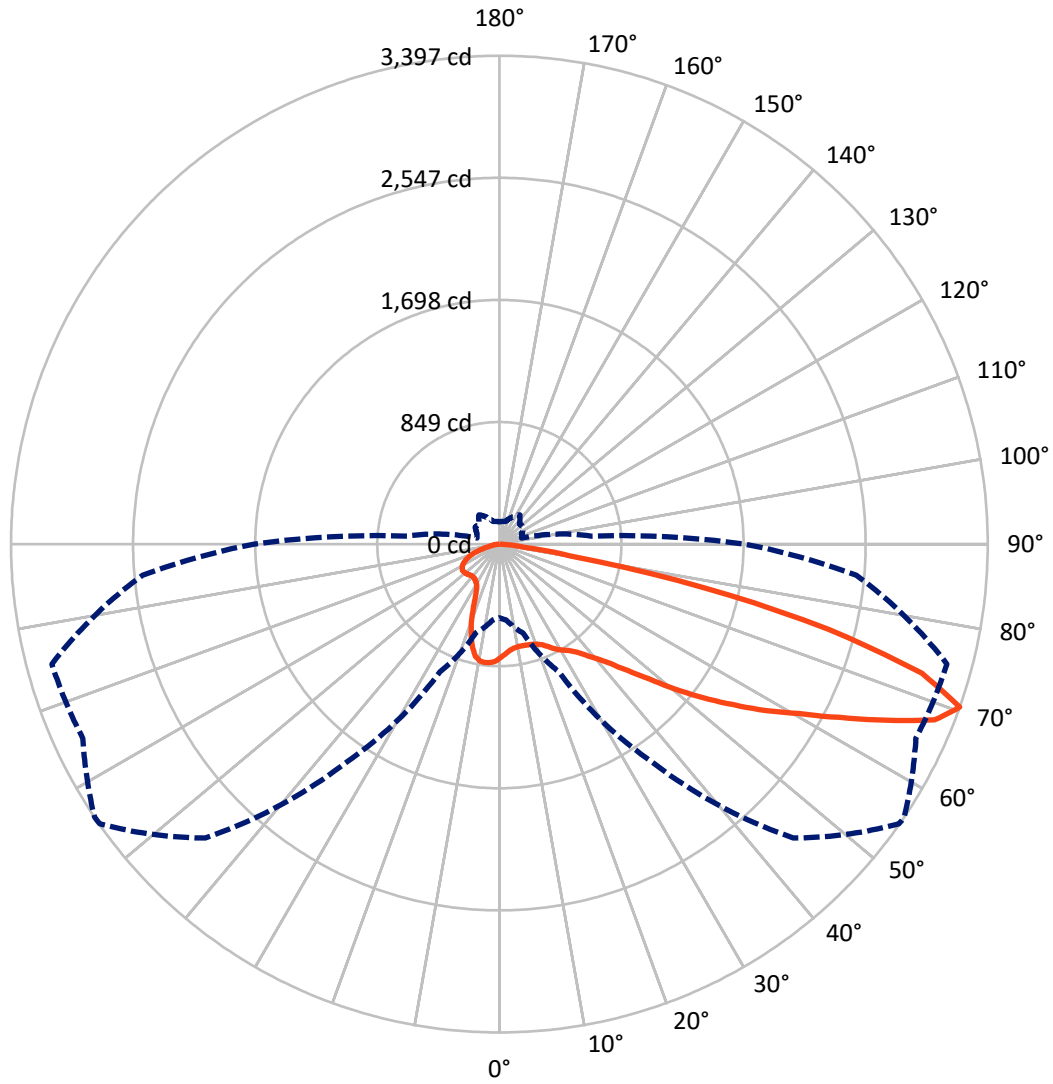
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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	941.4	0.0	941.4
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	3955.5	0.0	3955.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	4896.9	0.0	4896.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	1.5
10°-20°	198.2	4.0
20°-30°	327.7	6.7
30°-40°	489.9	10.0
40°-50°	729.0	14.9
50°-60°	1036.5	21.2
60°-70°	1283.7	26.2
70°-80°	708.8	14.5
80°-90°	49.9	1.0
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°	4896.9	100.0
0°-180°	4896.9	100.0

Coefficient of Utilization



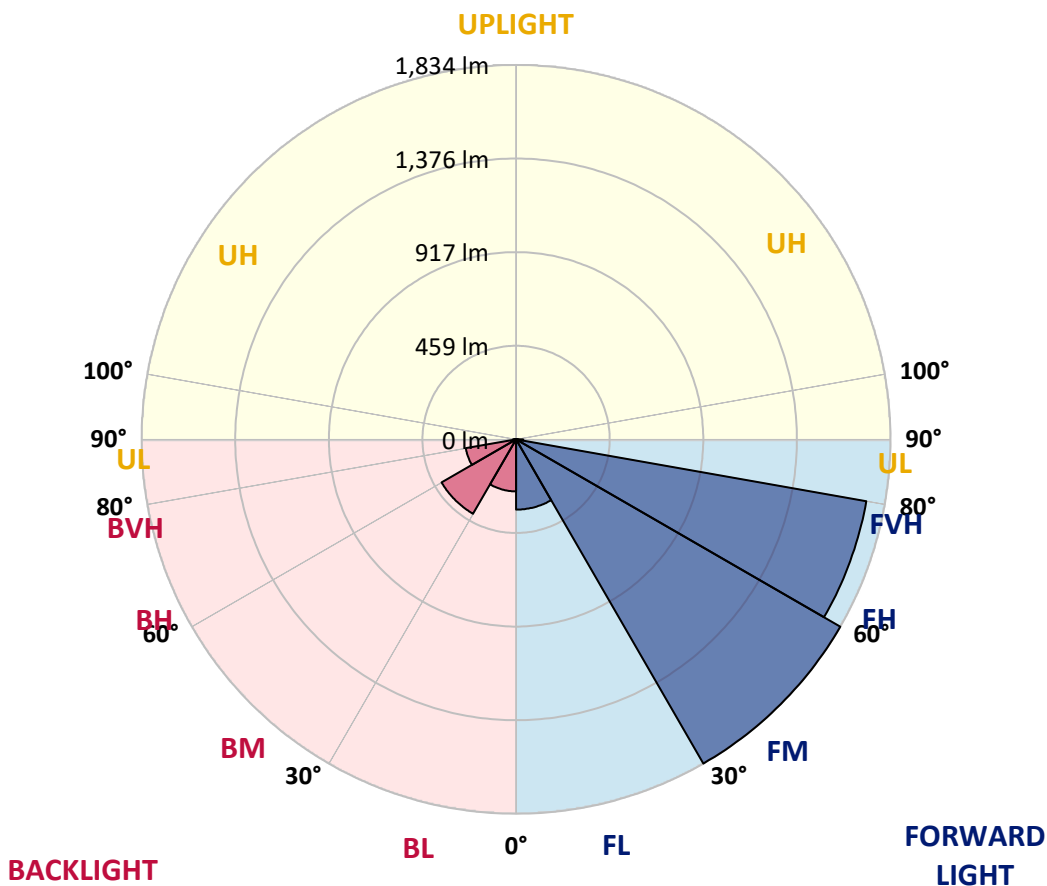
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.1	7.0			
FM (30°-60°)	1834.3	37.5			
FH (60°-80°)	1742.3	35.6			G1/1800
FVH (80°-90°)	34.7	0.7			G1/100
BL (0°-30°)	254.9	5.2	B1/500		
BM (30°-60°)	421.1	8.6	B1/1000		
BH (60°-80°)	250.2	5.1	B1/500		G1/500
BVH (80°-90°)	15.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4
2.5°	739.7	735.5	740.4	742.8	749.0	758.0	765.9	766.3	770.4	780.4	790.1
5°	706.2	704.1	705.5	712.7	719.3	730.7	742.8	743.8	755.6	775.2	794.6
7.5°	680.3	677.5	682.7	692.0	700.3	713.1	729.0	730.3	746.9	776.6	806.3
10°	643.0	640.9	650.6	663.0	681.0	702.0	723.1	724.8	746.6	785.6	827.0
12.5°	626.8	626.8	630.9	642.6	662.3	690.3	722.1	724.8	752.1	799.4	853.6
15°	652.0	653.7	650.2	649.5	657.5	684.1	723.4	727.6	762.5	813.6	879.9
17.5°	702.7	704.5	695.5	681.3	673.4	689.9	728.6	733.1	773.5	829.1	908.2
20°	773.9	775.9	756.2	734.5	707.2	706.9	738.6	742.8	787.7	846.0	938.2
22.5°	857.1	858.5	833.6	799.1	757.3	738.3	755.9	760.0	806.0	869.5	970.7
25°	953.4	957.6	927.5	877.5	820.8	781.5	784.6	789.4	838.8	900.9	1009.0
27.5°	1056.3	1061.5	1027.0	971.7	893.7	829.1	821.5	825.7	873.7	920.3	1029.4
30°	1161.7	1165.5	1130.9	1067.7	972.1	883.0	852.6	855.0	888.9	929.6	1050.1
32.5°	1278.7	1275.6	1242.5	1169.6	1062.5	947.6	881.6	880.9	905.8	948.2	1079.8
35°	1388.5	1393.0	1357.8	1277.3	1162.0	1027.3	925.1	922.3	941.7	978.6	1121.6
37.5°	1521.5	1520.1	1478.0	1390.9	1261.8	1103.6	986.2	981.4	988.3	1025.9	1180.0
40°	1616.4	1626.1	1598.8	1517.7	1378.5	1197.6	1057.7	1047.0	1048.7	1084.3	1258.0
42.5°	1694.1	1703.1	1705.9	1654.1	1512.2	1313.6	1146.8	1136.1	1137.1	1187.6	1354.0
45°	1753.9	1766.0	1805.0	1789.8	1662.7	1447.6	1267.3	1256.3	1257.0	1312.9	1470.0
47.5°	1778.4	1791.5	1870.6	1906.9	1822.6	1607.8	1417.2	1401.0	1403.4	1465.2	1602.6
50°	1770.5	1788.1	1895.1	1997.0	1956.6	1770.8	1596.4	1585.0	1575.7	1665.5	1746.6
52.5°	1702.1	1721.4	1892.7	2054.3	2066.0	1924.8	1781.5	1774.9	1772.9	1878.2	1907.5
55°	1500.8	1533.2	1809.5	2069.5	2151.7	2069.8	1982.1	1971.1	1981.8	2106.1	2070.2
57.5°	1389.2	1413.4	1646.5	2052.6	2221.8	2208.0	2182.4	2183.5	2195.5	2353.7	2267.4
60°	1325.7	1354.0	1556.0	2006.3	2289.1	2375.8	2392.0	2392.0	2413.8	2620.6	2467.6
62.5°	1241.4	1270.1	1471.4	1917.2	2351.3	2573.3	2655.5	2654.5	2663.1	2906.9	2663.4
65°	1070.5	1097.1	1301.5	1776.7	2381.7	2790.9	2954.9	2951.8	2934.5	3161.7	2792.9
67.5°	777.3	802.5	996.9	1509.4	2272.2	2966.3	3263.3	3264.6	3161.4	3322.3	2799.8
70°	512.5	529.7	640.9	980.4	1847.8	2890.7	3392.4	3396.6	3196.3	3222.2	2491.8
72.5°	319.8	331.9	400.2	584.6	1091.9	2288.1	3060.9	3072.3	2875.5	2831.6	2047.4
75°	212.4	220.7	266.2	340.8	505.2	1238.3	2326.8	2363.4	2304.7	2219.7	1426.5
77.5°	127.8	134.7	169.6	216.5	223.8	483.8	1358.1	1452.8	1461.0	1158.9	597.4
80°	58.4	66.3	93.6	123.6	119.1	168.5	479.0	501.1	591.2	368.1	188.5
82.5°	34.5	38.0	62.2	61.5	50.8	81.8	172.3	176.8	150.2	134.7	80.5
85°	13.8	16.2	26.2	23.1	18.6	26.6	64.9	68.0	65.3	58.7	29.7
87.5°	0.0	0.0	0.0	0.0	0.3	0.7	5.9	6.2	9.0	16.2	9.0
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-SA1D-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4
2.5°	796.3	794.2	804.6	812.5	816.0	819.4	816.3	815.3	815.3	808.4	804.9
5°	804.9	806.0	820.1	826.7	826.7	823.9	815.6	809.8	807.7	798.7	796.3
7.5°	821.2	825.7	838.8	838.4	828.8	813.6	792.9	777.0	762.5	756.2	752.4
10°	847.8	853.6	862.6	848.1	821.2	781.1	737.3	702.7	682.0	665.4	665.4
12.5°	878.1	883.7	881.9	848.4	792.9	717.9	654.7	615.0	586.0	570.8	570.8
15°	908.5	913.0	894.4	832.6	733.8	634.0	564.9	517.3	492.1	477.9	477.9
17.5°	939.3	938.9	899.6	796.0	656.8	541.1	473.4	436.5	427.9	425.4	425.1
20°	969.0	961.0	893.0	734.8	567.4	447.5	404.7	407.1	419.9	425.4	426.1
22.5°	1002.5	982.8	873.7	656.8	465.8	382.6	385.4	405.4	424.1	432.3	433.4
25°	1036.6	1001.4	841.2	565.3	380.9	358.8	380.2	402.6	423.7	434.4	435.4
27.5°	1050.5	1001.4	785.9	459.3	335.6	348.8	372.3	394.0	416.1	428.5	431.0
30°	1061.9	992.8	708.6	363.6	317.0	339.1	359.5	379.5	401.3	416.5	419.2
32.5°	1077.7	985.2	615.0	305.6	308.4	329.8	343.9	360.9	380.5	390.6	389.5
35°	1096.4	973.5	502.1	278.0	301.1	321.8	331.9	341.9	332.9	332.5	333.6
37.5°	1123.0	963.1	403.7	265.6	296.3	316.3	324.6	303.2	290.8	285.6	283.5
40°	1161.3	959.0	318.4	258.3	295.6	316.0	310.1	276.9	260.0	242.1	241.7
42.5°	1209.7	955.8	263.1	254.8	298.0	323.9	290.1	259.7	224.8	216.9	216.2
45°	1271.8	951.0	235.5	254.2	303.9	330.1	288.0	235.9	212.0	208.6	208.6
47.5°	1346.7	943.4	223.1	254.2	310.4	327.4	281.8	230.7	206.2	210.0	212.4
50°	1432.7	933.7	216.5	253.5	317.0	327.4	268.7	229.6	204.8	224.5	232.4
52.5°	1524.6	922.7	212.0	250.7	321.5	327.7	269.3	233.1	206.2	227.9	234.5
55°	1626.1	921.0	205.8	244.8	322.9	318.7	271.1	240.7	208.2	206.5	206.8
57.5°	1754.2	941.7	201.3	236.2	317.3	300.4	274.5	246.2	205.8	206.2	208.6
60°	1888.2	980.7	205.1	227.9	306.0	283.2	276.9	243.4	194.1	188.5	189.2
62.5°	2002.2	1010.4	208.2	224.1	289.4	268.0	274.5	237.2	187.5	186.1	189.2
65°	2049.8	985.9	200.6	216.2	265.2	249.3	269.3	229.3	182.0	176.8	177.1
67.5°	1997.0	870.9	185.8	198.6	237.9	225.5	261.1	218.9	174.4	168.2	166.8
70°	1705.9	639.9	160.2	170.6	204.8	197.5	248.3	205.5	162.3	157.8	154.7
72.5°	1374.7	453.1	132.9	135.7	160.6	166.4	226.2	188.5	148.5	135.7	131.2
75°	956.9	284.5	110.8	108.1	116.0	127.1	176.5	156.4	128.1	114.6	110.5
77.5°	411.6	146.1	86.7	85.3	77.4	88.1	135.4	130.5	107.4	91.9	89.4
80°	137.8	84.6	62.5	60.1	51.5	61.8	95.3	104.3	84.3	68.0	63.9
82.5°	69.1	49.0	39.7	35.9	34.5	39.0	56.3	64.9	58.4	47.0	39.7
85°	33.8	28.0	21.8	21.4	18.0	16.9	23.5	27.6	26.2	19.3	18.3
87.5°	12.4	11.1	6.9	5.5	3.5	2.4	1.4	1.4	1.0	1.0	1.0
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)