

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: P633546

Luminaire Tested: GWS-SA2E-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7157.6 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

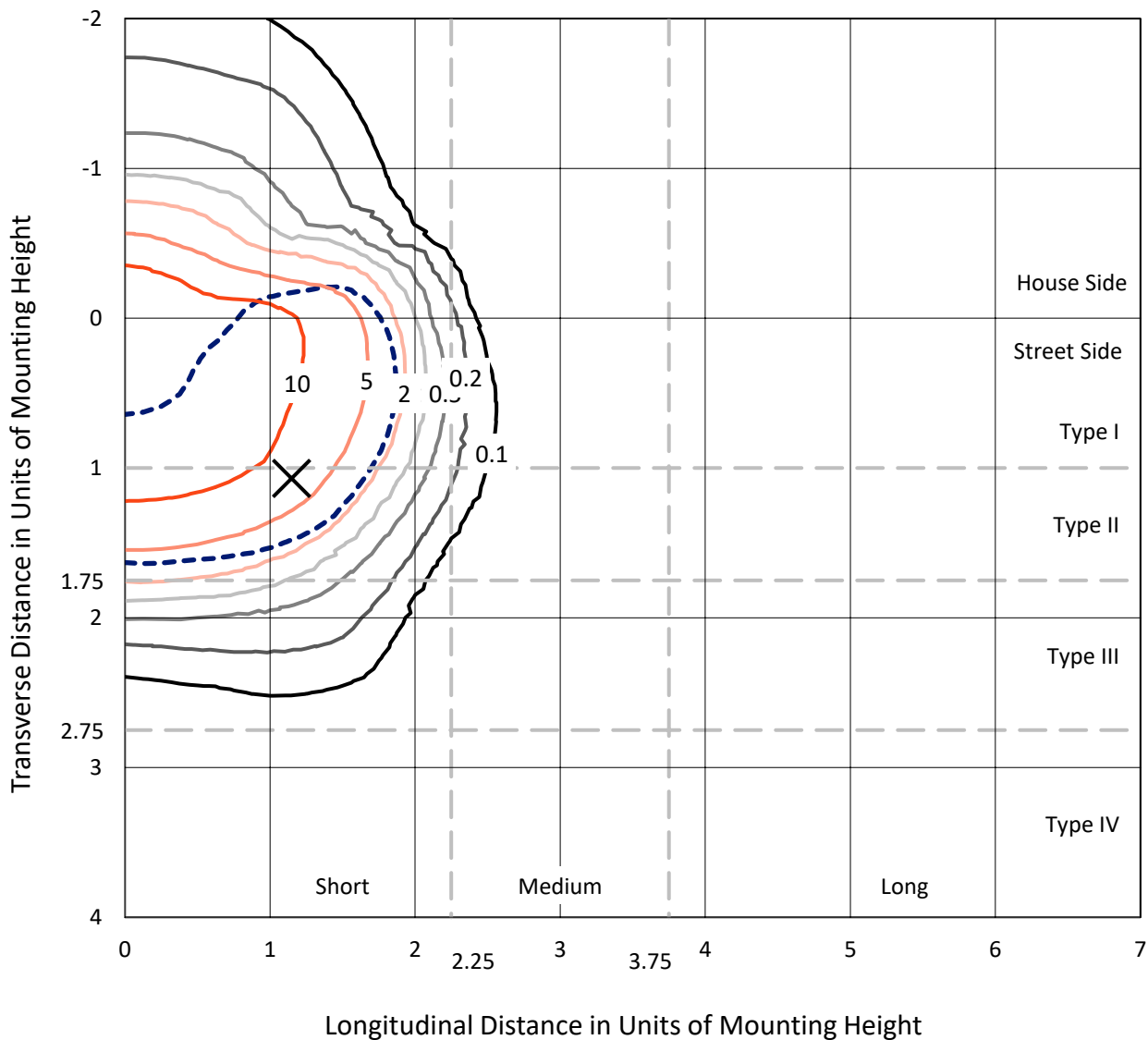
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

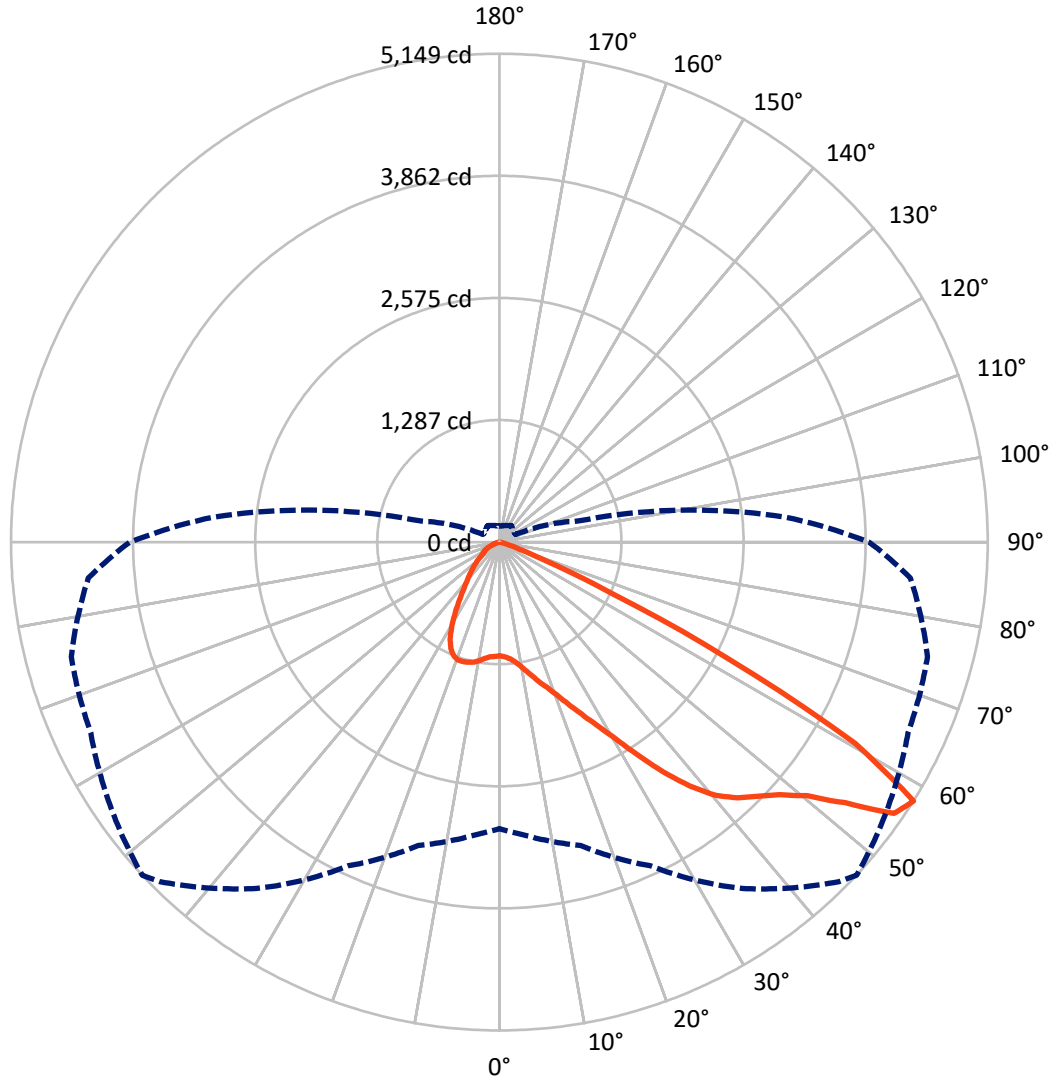
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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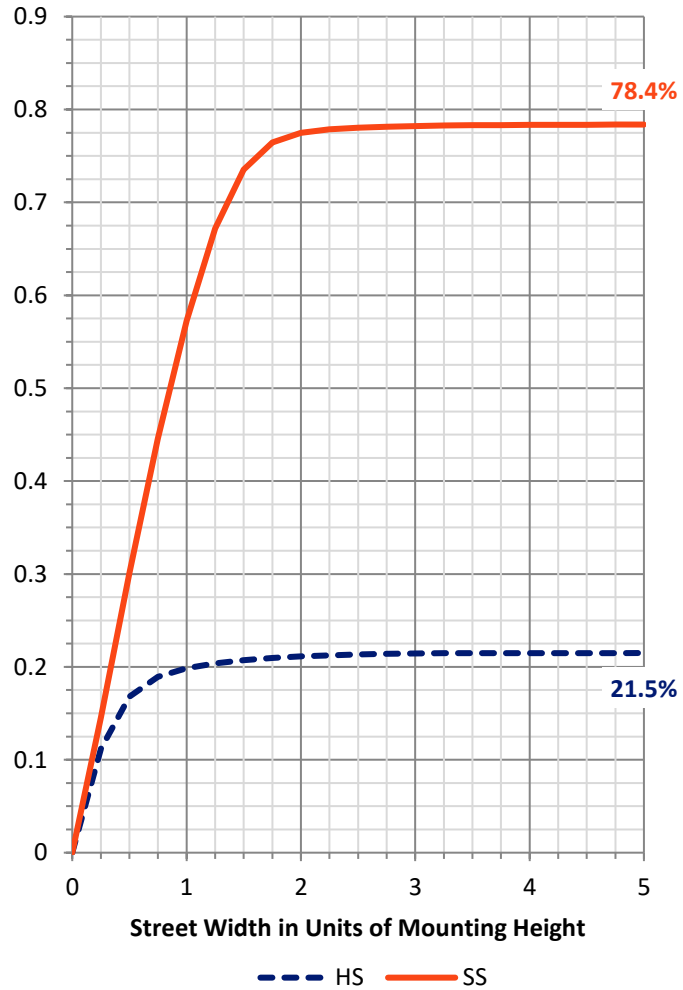
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1552.8	0.0	1552.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5604.8	0.0	5604.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	7157.6	0.0	7157.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.7
10°-20°	402.2	5.6
20°-30°	746.8	10.4
30°-40°	1195.6	16.7
40°-50°	1747.6	24.4
50°-60°	2156.9	30.1
60°-70°	720.7	10.1
70°-80°	67.2	0.9
80°-90°	1.4	0.0
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°	7157.6	100.0
0°-180°	7157.6	100.0

Coefficient of Utilization



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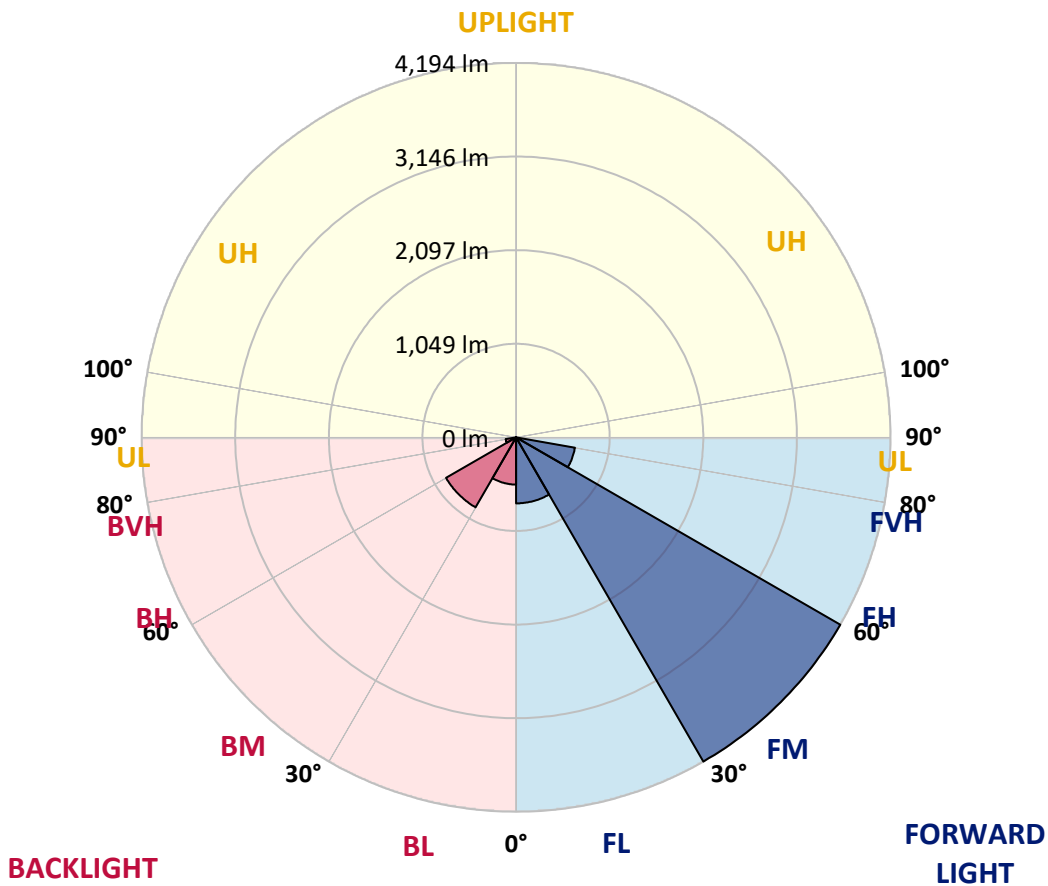
CATALOG NUMBER: GWS-SA2E-830-U-T3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	739.7	10.3			
FM (30°-60°)	4194.3	58.6			
FH (60°-80°)	669.8	9.4			G1/1800
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	528.6	7.4	B2/1000		
BM (30°-60°)	905.8	12.7	B1/1000		
BH (60°-80°)	118.1	1.6	B1/500		G1/500
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2
2.5°	1210.7	1209.8	1209.0	1214.0	1212.3	1211.5	1213.1	1213.1	1213.1	1208.2	1198.2
5°	1239.7	1239.7	1238.9	1243.9	1239.7	1237.2	1238.1	1238.1	1234.8	1225.6	1213.1
7.5°	1285.4	1283.8	1282.1	1287.1	1282.9	1282.1	1283.8	1278.8	1273.0	1258.0	1240.6
10°	1351.1	1351.1	1348.6	1353.6	1350.2	1348.6	1348.6	1345.3	1334.5	1311.2	1285.4
12.5°	1441.7	1437.5	1431.7	1427.5	1425.9	1425.0	1425.9	1420.9	1409.2	1379.3	1343.6
15°	1540.5	1537.2	1528.1	1521.4	1512.3	1510.6	1515.6	1511.4	1499.8	1459.1	1408.4
17.5°	1665.2	1669.3	1646.1	1631.9	1605.3	1603.7	1605.3	1612.0	1603.7	1551.3	1477.4
20°	1771.5	1774.8	1757.4	1747.4	1723.3	1712.5	1715.9	1726.7	1717.5	1656.0	1553.0
22.5°	1885.4	1889.5	1871.2	1850.5	1839.7	1839.7	1852.1	1867.1	1854.6	1774.0	1639.4
25°	2021.6	2025.0	2010.0	1982.6	1963.5	1987.6	2005.8	2045.7	2025.0	1915.3	1741.6
27.5°	2177.8	2178.7	2157.1	2128.8	2118.9	2163.7	2182.0	2243.5	2235.2	2074.0	1849.6
30°	2344.9	2345.7	2340.7	2321.6	2312.5	2371.5	2396.4	2485.3	2479.5	2270.9	1996.7
32.5°	2518.5	2518.5	2527.7	2526.0	2536.8	2633.2	2673.1	2774.4	2768.6	2511.9	2179.5
35°	2693.0	2693.9	2709.6	2749.5	2794.4	2922.4	2974.7	3097.7	3084.4	2800.2	2413.0
37.5°	2891.6	2883.3	2904.9	2964.7	3064.4	3212.3	3262.2	3379.4	3364.4	3095.2	2717.9
40°	3130.9	3116.0	3116.0	3185.8	3298.8	3469.1	3511.5	3569.6	3519.0	3333.7	3017.1
42.5°	3395.1	3381.0	3362.7	3424.2	3519.0	3651.9	3686.8	3671.0	3629.5	3558.8	3357.8
45°	3662.7	3641.1	3653.6	3691.0	3745.8	3808.9	3822.2	3749.1	3730.0	3750.0	3639.4
47.5°	3866.3	3851.3	3882.1	3934.4	3979.3	3988.4	3979.3	3877.9	3876.3	3946.9	3834.7
50°	3934.4	3936.1	4020.8	4135.5	4207.8	4215.3	4202.8	4086.5	4070.7	4091.5	3940.2
52.5°	3941.1	3947.7	4071.5	4290.1	4487.0	4576.7	4566.7	4441.3	4286.7	4264.3	4099.8
55°	3780.7	3819.7	3992.6	4311.7	4730.4	5017.1	5050.3	4810.2	4580.9	4561.8	4442.9
57.5°	3022.1	3101.8	3310.4	3764.9	4458.7	5062.8	5149.2	4976.4	4754.5	4673.1	4350.7
60°	1806.4	1905.3	2105.6	2663.1	3393.5	4161.3	4310.0	4334.1	4231.9	3996.7	3337.8
62.5°	775.3	766.9	1013.7	1440.8	2018.3	2644.8	2712.1	2816.8	2905.7	2659.8	2025.8
65°	265.9	289.2	402.2	649.8	1010.4	1228.1	1287.9	1381.8	1508.1	1244.7	742.0
67.5°	164.5	174.5	231.8	383.9	545.1	536.8	510.2	495.2	481.9	329.9	203.6
70°	119.7	128.0	162.9	264.2	366.4	257.6	223.5	181.1	201.1	185.3	144.6
72.5°	80.6	87.2	112.2	160.4	187.8	125.5	116.3	132.1	159.5	152.1	118.0
75°	48.2	52.3	64.0	78.1	76.4	64.8	65.6	93.1	122.1	113.8	83.9
77.5°	33.2	34.9	42.4	50.7	37.4	19.9	18.3	25.8	41.5	41.5	28.3
80°	8.3	10.8	10.8	6.6	5.8	5.0	5.0	7.5	11.6	8.3	4.2
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2
2.5°	1204.0	1194.0	1200.7	1199.0	1204.0	1205.7	1198.2	1196.5	1197.4	1187.4	1184.1
5°	1215.6	1204.0	1207.3	1204.0	1209.8	1214.8	1212.3	1215.6	1219.8	1212.3	1209.0
7.5°	1240.6	1228.9	1228.1	1223.1	1231.4	1234.8	1233.9	1243.1	1251.4	1246.4	1241.4
10°	1283.8	1268.0	1266.3	1262.2	1264.7	1267.2	1258.0	1259.7	1267.2	1261.3	1258.8
12.5°	1337.0	1317.8	1313.7	1303.7	1303.7	1291.3	1271.3	1267.2	1273.0	1268.8	1264.7
15°	1394.3	1368.5	1361.9	1344.4	1327.8	1304.5	1283.8	1278.8	1282.9	1278.0	1274.6
17.5°	1458.3	1429.2	1407.6	1376.8	1340.3	1312.9	1289.6	1278.8	1272.1	1262.2	1261.3
20°	1521.4	1483.2	1446.6	1397.6	1349.4	1307.9	1269.6	1241.4	1217.3	1202.3	1196.5
22.5°	1594.5	1538.0	1479.0	1410.1	1341.1	1278.0	1210.7	1162.5	1120.9	1106.8	1100.1
25°	1672.6	1599.5	1511.4	1421.7	1312.9	1211.5	1120.1	1048.6	993.8	975.5	968.0
27.5°	1759.1	1658.5	1544.7	1419.2	1254.7	1116.8	995.4	906.5	852.5	835.9	841.7
30°	1868.7	1735.0	1586.2	1393.5	1167.4	983.8	841.7	766.9	726.2	710.4	711.3
32.5°	2015.0	1844.6	1646.9	1338.6	1055.3	832.6	707.9	653.1	625.7	604.9	603.2
35°	2224.4	2011.7	1703.4	1250.5	919.0	698.0	607.4	564.2	526.0	501.9	506.0
37.5°	2475.3	2221.9	1734.1	1131.7	766.1	593.3	531.8	487.8	444.5	408.8	413.0
40°	2772.8	2496.9	1731.6	975.5	626.5	521.8	468.6	417.1	363.1	330.7	334.0
42.5°	3104.3	2757.0	1677.6	810.1	519.3	463.7	408.0	343.2	290.8	270.9	271.7
45°	3391.8	2968.1	1582.9	639.0	437.1	407.2	344.8	278.4	255.1	241.0	240.1
47.5°	3604.5	3122.6	1447.5	502.7	370.6	355.6	283.3	249.3	231.0	219.4	217.7
50°	3723.4	3176.6	1297.9	393.9	313.3	301.6	253.4	226.0	213.5	206.1	204.4
52.5°	3882.9	3241.4	1190.7	310.8	262.6	246.8	233.5	210.2	201.9	196.1	193.6
55°	4135.5	3366.9	1097.6	246.8	218.5	215.2	220.2	201.1	196.1	187.0	183.6
57.5°	3897.9	3024.6	852.5	191.1	184.5	196.9	212.7	191.9	179.5	171.2	167.8
60°	2742.9	2010.8	428.8	153.7	164.5	184.5	200.3	173.7	161.2	162.9	161.2
62.5°	1512.3	1006.2	192.8	128.8	142.9	162.9	171.2	150.4	142.1	156.2	158.7
65°	494.4	342.3	111.3	99.7	113.0	132.9	147.9	142.9	141.3	157.9	162.9
67.5°	152.1	113.0	75.6	71.5	78.1	98.0	124.6	154.6	166.2	171.2	173.7
70°	113.8	88.9	64.8	60.7	64.0	74.8	105.5	128.8	121.3	122.1	120.5
72.5°	91.4	70.6	55.7	53.2	53.2	51.5	55.7	69.8	78.9	83.1	83.1
75°	64.0	49.9	42.4	39.1	30.7	24.9	22.4	22.4	19.9	19.1	18.3
77.5°	21.6	18.3	16.6	13.3	9.1	7.5	6.6	5.8	4.2	2.5	1.7
80°	3.3	2.5	1.7	1.7	1.7	0.8	0.8	0.8	0.0	0.0	0.0
82.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0
85°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	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



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

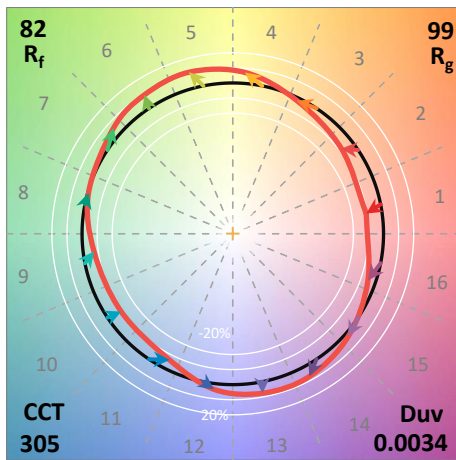
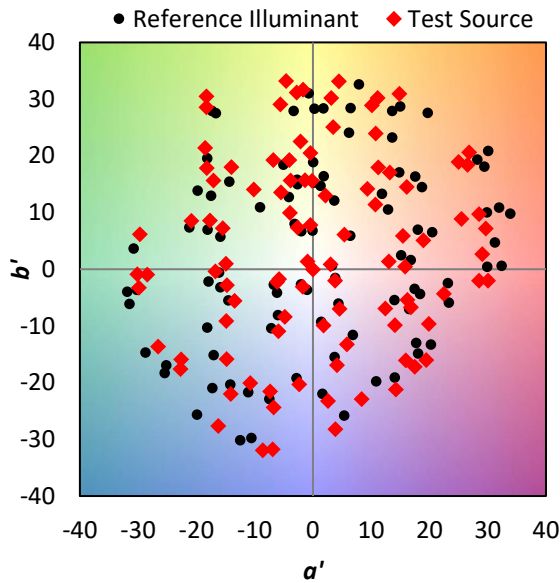
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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