

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: P630085

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2394.8 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

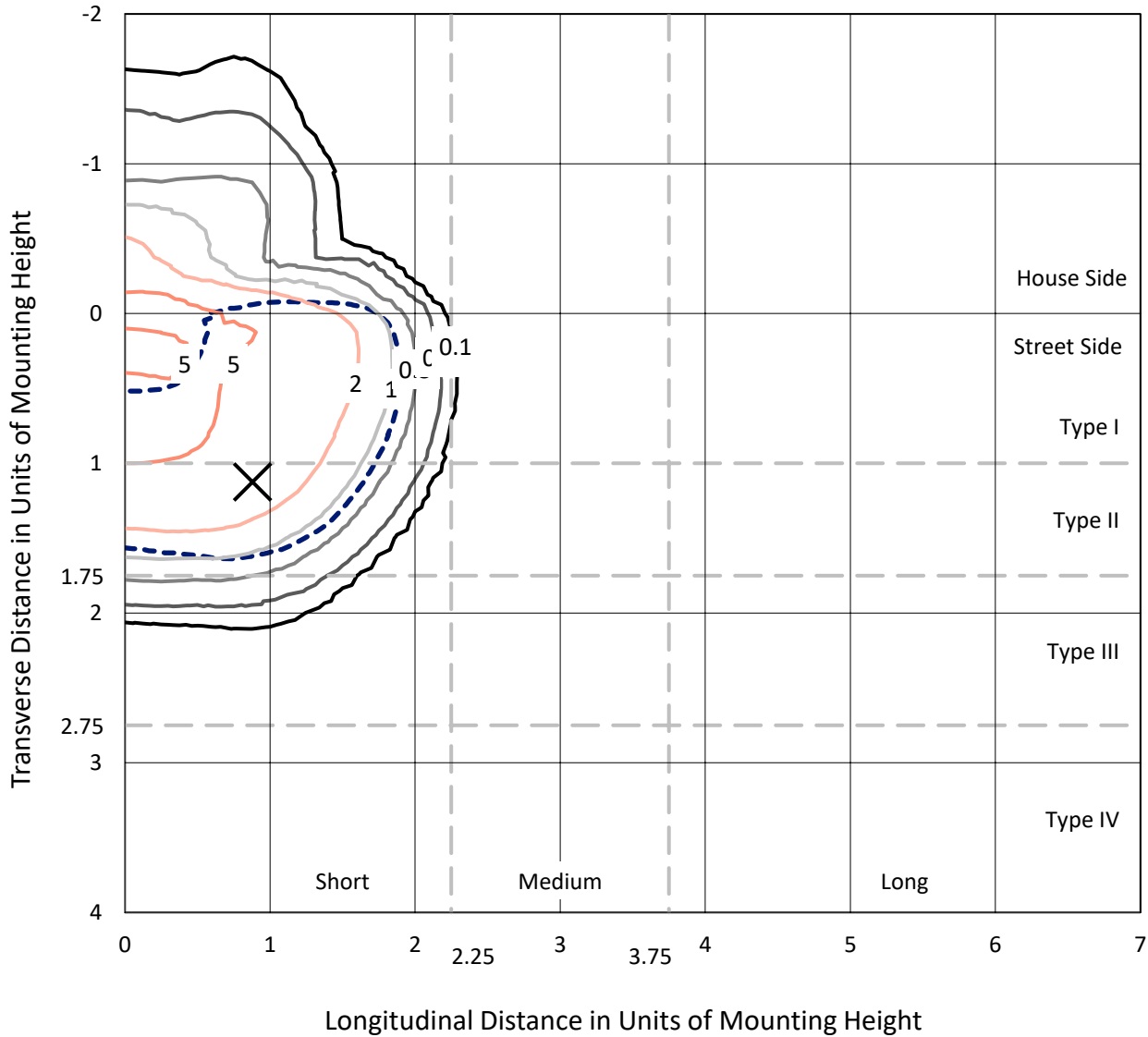
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630085
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Iso-Footcandle Lines of Horizontal Illumination

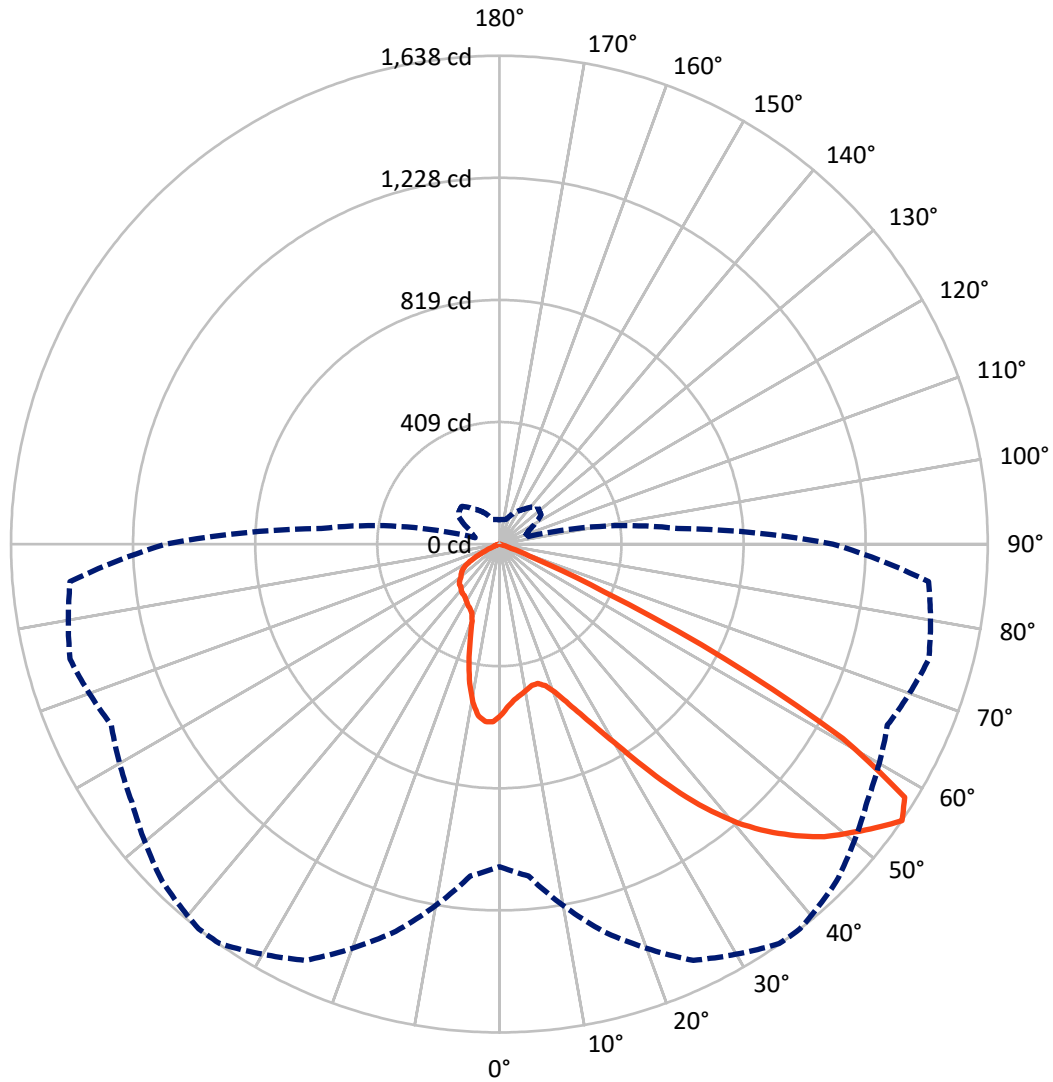
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	466.6	0.0	466.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	1928.2	0.0	1928.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	2394.8	0.0	2394.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	2.2
10°-20°	143.0	6.0
20°-30°	245.3	10.2
30°-40°	406.9	17.0
40°-50°	598.1	25.0
50°-60°	698.9	29.2
60°-70°	236.9	9.9
70°-80°	12.1	0.5
80°-90°	0.5	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°	2394.8	100.0
0°-180°	2394.8	100.0

Coefficient of Utilization



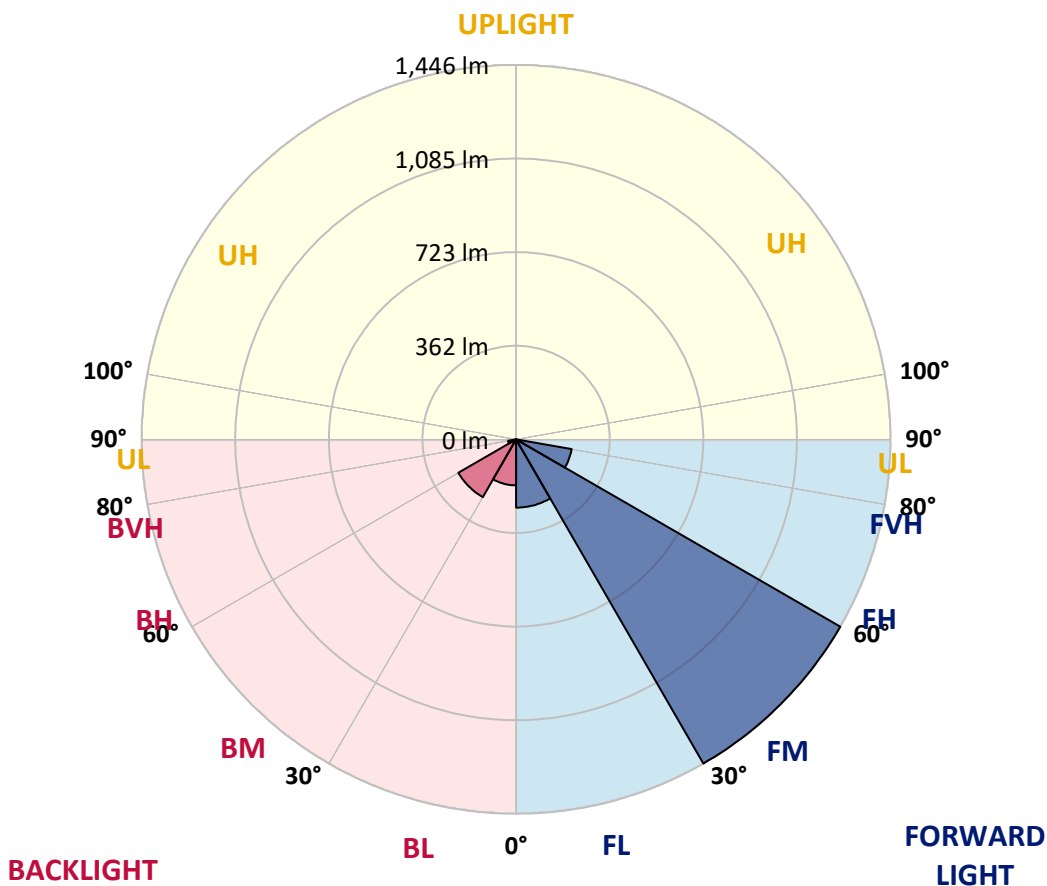
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.6	11.0			
FM (30°-60°)	1446.4	60.4			
FH (60°-80°)	218.0	9.1			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	177.8	7.4	B1/500		
BM (30°-60°)	257.5	10.8	B1/1000		
BH (60°-80°)	31.1	1.3	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3
2.5°	534.9	533.8	536.0	540.3	544.5	545.8	549.9	555.7	559.2	567.7	574.6
5°	510.8	510.2	512.4	516.3	521.7	523.7	529.9	539.5	549.1	563.9	578.4
7.5°	488.9	488.6	491.9	500.4	508.3	510.8	518.4	530.2	543.1	565.8	587.2
10°	460.1	460.4	466.7	478.8	493.3	498.2	510.5	527.5	544.2	573.5	603.0
12.5°	450.8	451.4	454.7	464.0	479.9	486.1	503.4	529.1	550.5	584.4	623.6
15°	473.6	473.6	470.8	471.9	479.0	484.8	502.8	534.6	561.2	597.6	643.8
17.5°	517.6	516.0	509.1	499.8	497.4	499.3	513.8	546.4	576.2	612.9	666.8
20°	577.3	577.8	564.4	545.0	529.4	529.1	537.9	567.2	597.8	631.2	691.7
22.5°	649.6	647.4	629.6	603.0	575.9	573.7	577.3	598.9	629.0	660.2	722.4
25°	733.3	732.2	707.1	671.5	635.6	630.4	630.4	651.8	673.7	701.6	759.1
27.5°	820.9	820.9	796.6	755.5	707.9	698.6	697.2	722.4	736.9	742.4	790.0
30°	911.0	909.9	885.8	843.6	792.7	783.1	779.3	797.9	808.3	791.9	828.6
32.5°	1002.4	1004.3	980.0	940.8	895.4	889.1	877.3	877.3	885.8	862.8	889.4
35°	1100.7	1100.1	1081.0	1054.4	1015.5	1008.4	989.0	958.6	971.5	961.3	973.4
37.5°	1187.5	1191.6	1182.3	1162.5	1131.1	1123.9	1091.9	1036.9	1046.8	1062.6	1073.3
40°	1275.6	1278.9	1288.2	1281.9	1242.2	1229.1	1172.1	1081.8	1092.7	1147.2	1177.9
42.5°	1362.1	1363.7	1382.6	1393.0	1339.9	1316.9	1232.9	1109.2	1120.7	1213.5	1267.1
45°	1417.1	1420.7	1451.9	1483.6	1426.1	1394.7	1285.7	1144.2	1149.1	1259.4	1333.1
47.5°	1414.9	1423.1	1481.7	1539.5	1500.3	1466.4	1349.2	1200.3	1192.1	1302.7	1376.6
50°	1370.9	1380.7	1464.7	1556.4	1553.7	1522.2	1419.9	1281.6	1255.9	1341.0	1382.1
52.5°	1279.4	1307.9	1434.9	1558.6	1596.7	1580.8	1507.2	1391.1	1342.1	1396.0	1390.8
55°	1081.8	1116.8	1344.3	1540.0	1635.6	1637.5	1598.9	1505.3	1435.7	1490.7	1444.8
57.5°	821.2	849.1	1034.7	1370.9	1571.2	1602.7	1634.5	1565.5	1493.5	1555.3	1457.4
60°	494.9	527.2	647.9	1006.0	1269.0	1322.7	1447.2	1433.8	1347.0	1373.6	1195.1
62.5°	200.6	217.6	299.2	554.3	798.8	848.8	968.2	988.4	967.1	940.0	724.8
65°	73.4	80.2	119.9	229.1	367.3	385.7	448.6	484.5	514.1	437.7	269.6
67.5°	45.4	49.8	78.0	117.7	133.6	124.3	126.5	150.8	144.0	89.0	48.2
70°	33.7	37.2	61.0	81.6	53.9	41.6	28.2	30.1	27.1	23.8	23.5
72.5°	23.3	26.6	45.7	48.2	20.8	14.8	10.4	14.5	16.4	16.2	16.7
75°	15.3	17.8	28.7	18.9	5.2	4.1	3.6	7.7	9.9	9.9	10.1
77.5°	9.0	10.4	10.1	3.8	1.1	1.1	0.8	1.4	2.2	2.5	3.0
80°	1.1	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
82.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8
85°	0.0	0.0	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.8	0.8
87.5°	0.0	0.0	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.8	0.8
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-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3
2.5°	579.8	577.8	585.8	591.5	596.2	598.4	595.4	595.1	595.1	589.1	587.4
5°	586.6	587.4	598.7	603.6	604.4	601.7	594.8	590.2	587.4	581.1	577.6
7.5°	599.7	602.5	613.2	612.3	604.9	592.4	574.3	560.3	551.3	541.4	535.4
10°	618.6	623.8	630.4	618.9	595.4	563.3	526.1	499.6	483.7	472.5	465.6
12.5°	641.6	646.8	644.6	617.5	568.5	511.3	463.4	425.1	406.8	396.6	389.5
15°	664.9	668.2	653.9	601.1	521.2	444.3	390.9	352.8	330.4	322.2	316.2
17.5°	688.7	687.9	655.6	568.8	458.0	368.7	316.2	290.2	283.9	282.5	281.9
20°	713.6	706.2	649.0	522.6	381.9	294.0	264.2	265.8	277.3	282.8	283.9
22.5°	742.1	723.5	632.6	459.9	304.1	245.0	248.0	264.2	279.8	287.1	288.2
25°	772.5	739.4	605.2	379.4	239.8	225.3	243.1	261.7	278.4	287.4	288.5
27.5°	792.5	743.2	560.3	298.4	205.8	217.6	236.5	254.3	271.5	281.4	282.8
30°	814.1	741.5	499.3	229.9	194.4	211.0	227.5	243.6	259.5	270.4	271.5
32.5°	845.8	740.4	424.8	186.7	189.7	205.8	217.9	231.3	242.3	248.5	247.7
35°	887.4	739.1	338.1	168.3	187.0	201.7	211.3	217.6	205.6	201.7	202.6
37.5°	940.8	742.4	265.0	160.7	186.1	200.6	208.9	190.8	172.2	165.1	164.0
40°	999.9	750.8	202.0	157.7	188.9	203.4	199.6	169.7	146.7	132.8	129.7
42.5°	1059.3	760.2	159.9	156.6	193.5	211.0	184.2	154.4	119.9	112.0	110.9
45°	1103.4	758.5	138.2	154.7	197.6	215.4	180.1	132.5	107.0	103.5	103.7
47.5°	1125.6	740.4	126.5	150.3	199.3	211.0	170.0	123.5	98.3	102.1	105.4
50°	1113.8	693.6	115.5	141.8	195.7	205.3	153.8	116.6	93.9	109.8	117.2
52.5°	1099.6	636.2	103.5	128.7	187.2	197.4	147.5	114.7	91.2	105.9	111.4
55°	1118.5	599.7	83.8	108.4	170.5	178.7	142.6	114.4	84.9	82.4	81.6
57.5°	1091.9	527.2	59.9	78.0	130.8	141.5	139.1	112.5	75.3	75.0	76.1
60°	843.9	321.6	41.1	49.5	80.2	90.3	126.2	107.6	64.9	59.7	59.9
62.5°	479.6	136.9	28.2	30.7	41.1	48.7	96.4	97.7	59.9	56.9	59.9
65°	167.0	49.0	21.9	20.5	22.7	26.0	55.3	75.6	54.5	49.3	49.8
67.5°	34.5	24.4	19.4	17.0	17.0	17.0	28.2	47.1	44.9	39.1	39.7
70°	21.9	20.8	17.0	14.5	14.0	12.9	16.2	26.0	30.9	28.5	28.7
72.5°	16.2	15.9	13.4	11.8	10.4	9.3	10.1	12.9	15.9	16.4	16.7
75°	9.9	10.1	8.8	7.4	6.6	5.7	6.0	6.0	6.0	5.5	6.0
77.5°	3.0	3.3	2.7	2.2	1.9	1.9	1.9	1.6	1.4	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.3	0.3	0.0	0.0
82.5°	0.8	0.8	0.8	0.8	0.5	0.5	0.3	0.3	0.0	0.0	0.0
85°	0.8	0.8	0.8	0.8	0.5	0.5	0.3	0.3	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.5	0.5	0.3	0.3	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



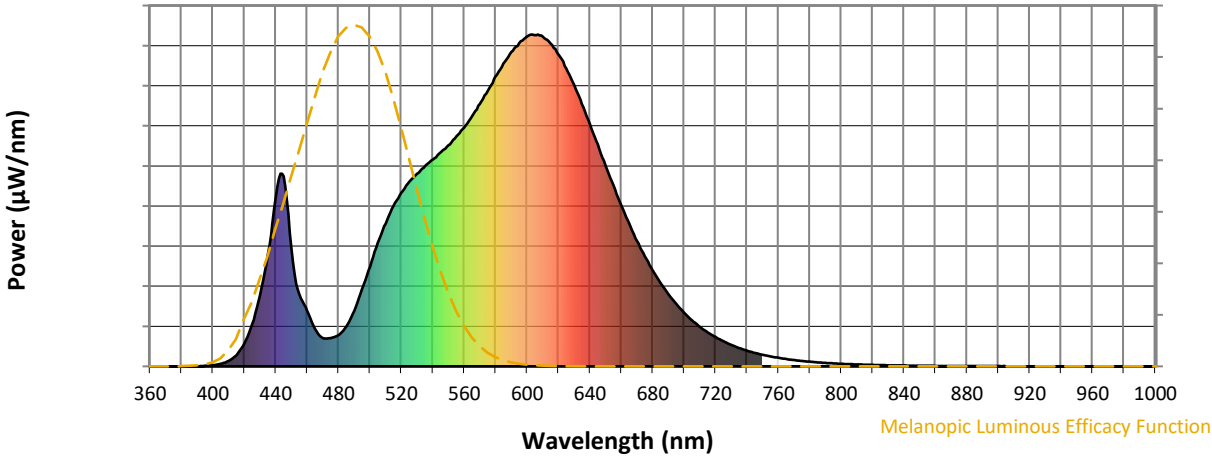
Scotopic Lumens: NR

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			

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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)