

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: P629090

Luminaire Tested: GWS-SA1A-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-830-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1988.2 lumens
Efficiency: N/A
Efficacy: 100.9 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

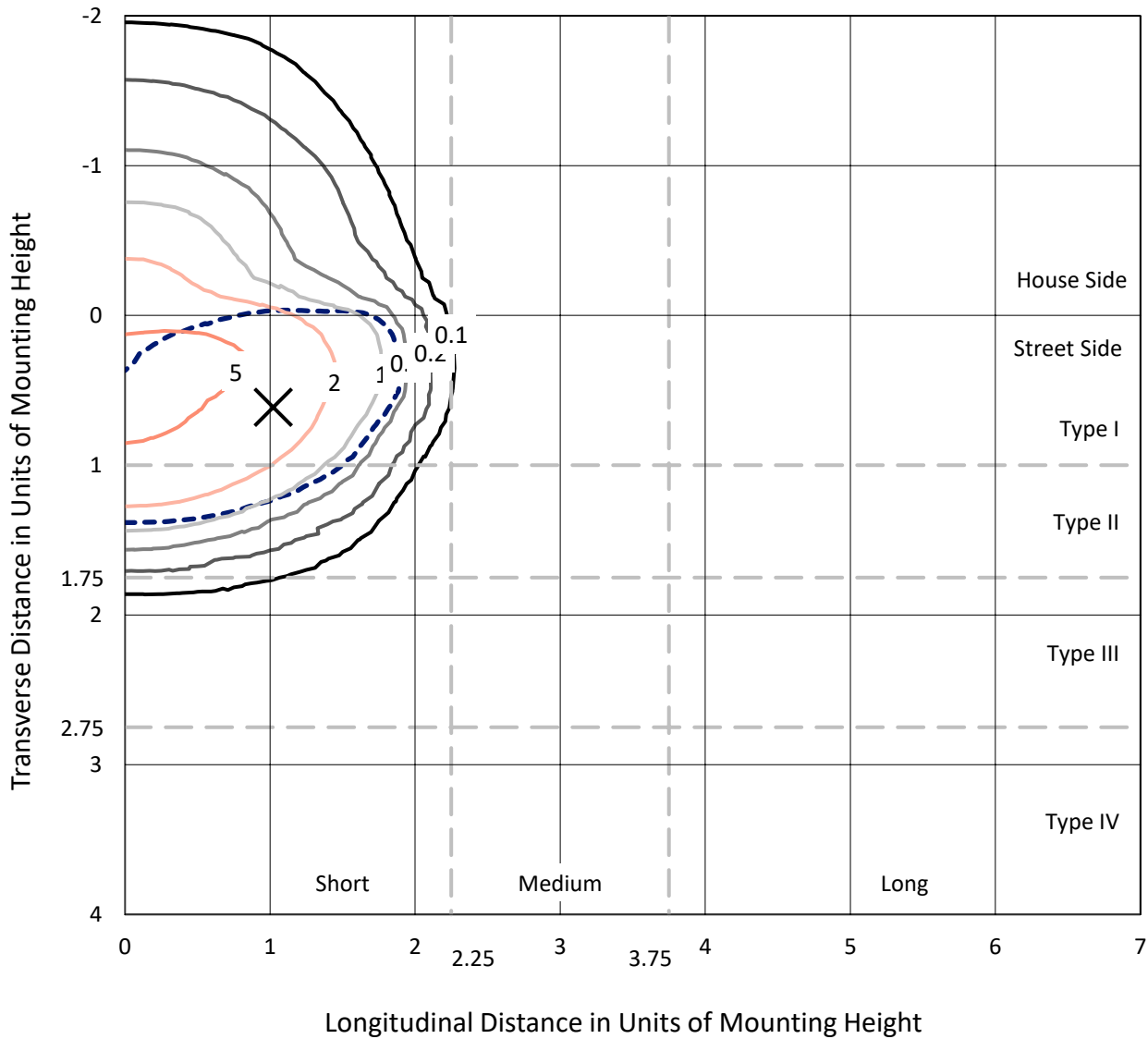
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

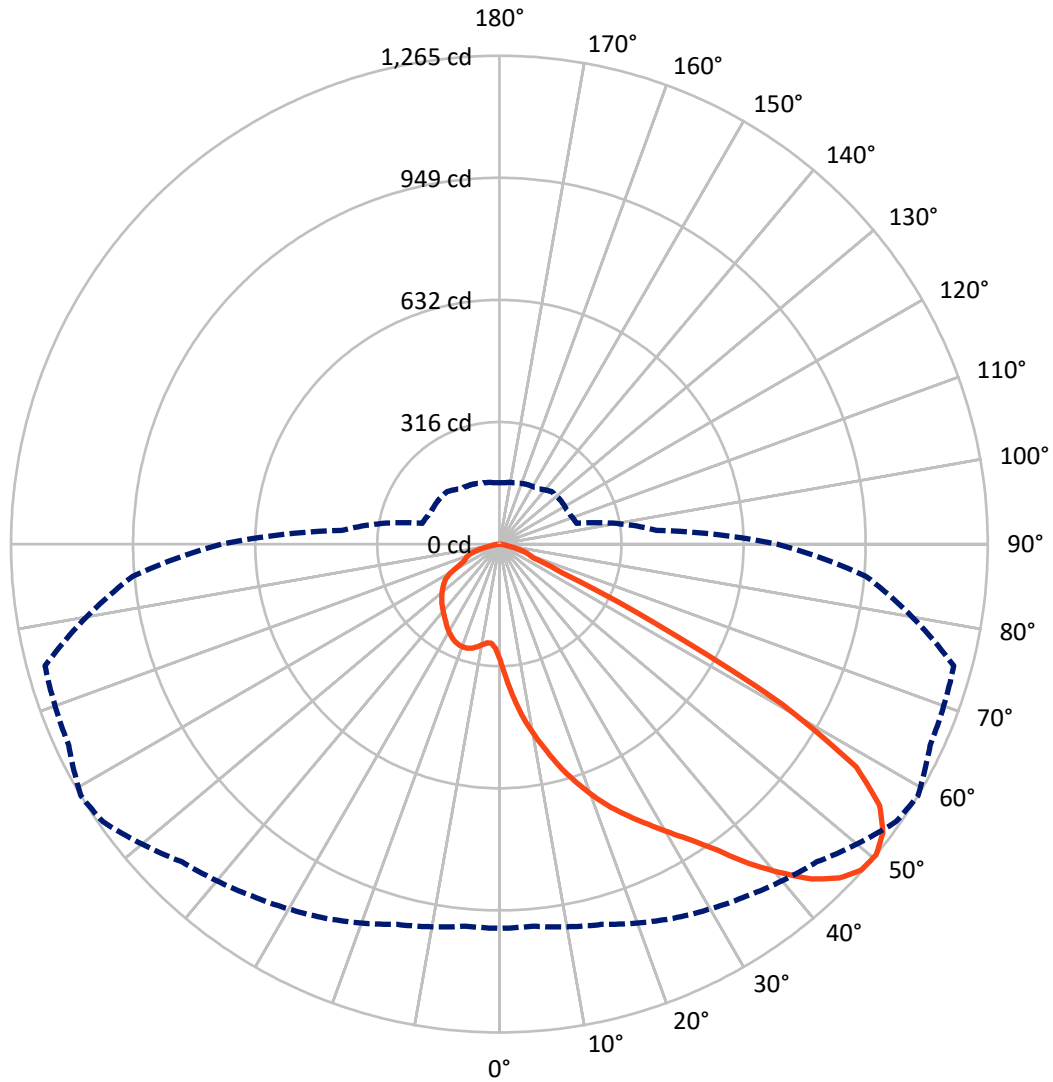
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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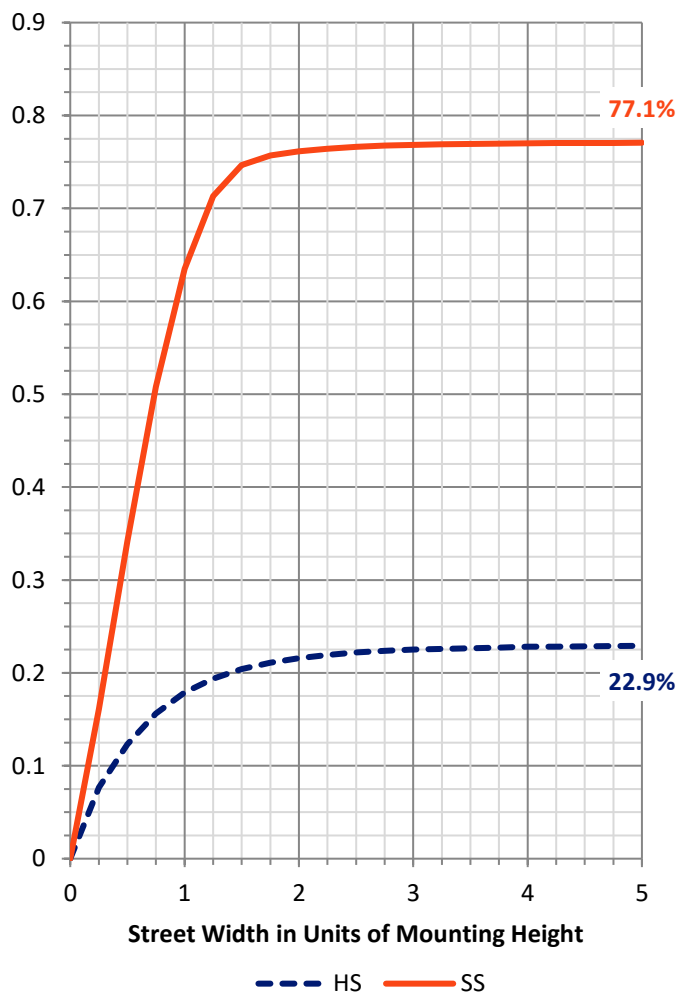
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	457.3	0.0	457.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	1530.9	0.0	1530.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	1988.2	0.0	1988.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	1.7
10°-20°	122.7	6.2
20°-30°	232.3	11.7
30°-40°	385.2	19.4
40°-50°	526.2	26.5
50°-60°	477.7	24.0
60°-70°	159.1	8.0
70°-80°	46.4	2.3
80°-90°	4.9	0.2
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°	1988.2	100.0
0°-180°	1988.2	100.0

Coefficient of Utilization



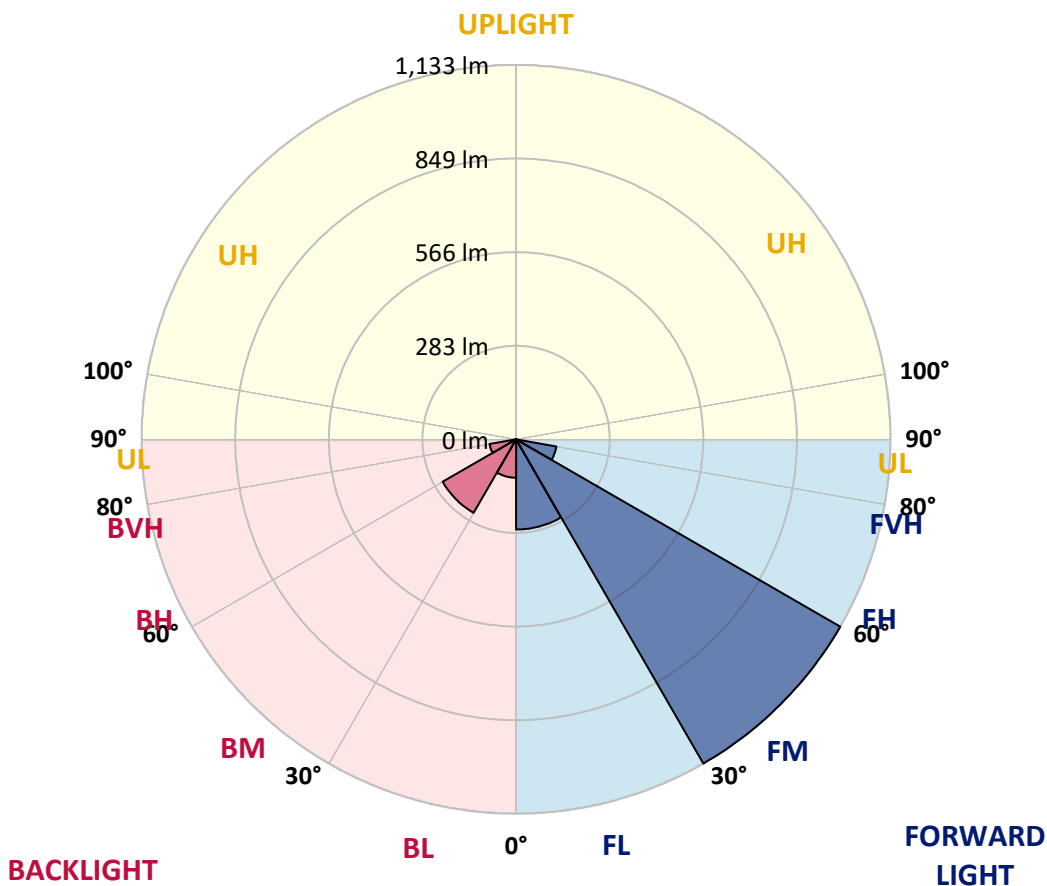
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.6	13.7			
FM (30°-60°)	1132.5	57.0			
FH (60°-80°)	123.8	6.2			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	116.1	5.8	B1/500		
BM (30°-60°)	256.6	12.9	B1/1000		
BH (60°-80°)	81.6	4.1	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			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°	45°	55°	59°	65°	75°	85°
0°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2
2.5°	390.3	393.2	388.7	389.0	377.7	372.5	357.9	349.3	343.7	327.8	313.4
5°	469.0	465.6	462.0	459.9	450.1	436.1	418.0	403.6	390.3	359.2	329.2
7.5°	517.3	515.5	513.1	511.8	502.0	487.5	469.3	457.0	437.7	395.6	348.5
10°	558.2	556.1	554.7	555.6	547.7	538.3	518.6	504.5	482.8	434.2	371.8
12.5°	590.0	591.1	591.6	596.8	593.4	587.7	567.3	552.4	528.3	474.8	399.2
15°	615.1	614.8	620.4	630.3	635.8	632.3	615.9	603.4	573.9	514.8	428.7
17.5°	620.9	621.2	630.1	647.5	665.5	674.2	665.0	650.1	620.9	554.4	459.3
20°	625.6	626.3	635.5	655.2	681.5	705.9	707.4	696.7	671.6	597.1	490.4
22.5°	655.2	656.7	659.1	671.6	695.2	726.2	743.2	740.9	719.9	642.0	523.9
25°	733.1	728.8	717.0	713.4	722.5	747.6	776.5	780.9	770.6	691.4	560.0
27.5°	829.3	824.6	807.2	788.7	769.1	777.8	808.8	821.9	822.1	745.8	596.3
30°	916.6	912.9	898.7	872.3	838.4	825.8	848.6	866.3	876.8	808.6	637.6
32.5°	991.3	987.9	968.6	947.1	914.0	888.6	896.9	913.9	938.5	889.9	688.9
35°	1054.1	1050.7	1032.3	1010.6	980.0	964.7	961.8	973.5	1005.4	974.8	747.9
37.5°	1105.1	1101.7	1082.5	1062.1	1038.7	1039.7	1044.1	1049.8	1068.1	1065.6	810.9
40°	1138.2	1134.6	1120.9	1106.3	1091.5	1103.2	1124.9	1118.1	1127.8	1139.0	868.9
42.5°	1152.9	1148.4	1140.4	1137.2	1132.7	1150.8	1192.6	1185.8	1174.1	1187.9	911.9
45°	1138.2	1134.3	1134.1	1144.0	1154.5	1177.9	1239.4	1233.9	1204.4	1211.5	937.7
47.5°	1093.0	1089.6	1098.8	1124.7	1150.7	1184.7	1260.3	1261.3	1226.0	1221.4	954.4
50°	995.3	993.1	1019.8	1068.9	1113.6	1163.4	1253.7	1264.8	1231.1	1218.3	952.3
52.5°	796.8	807.3	865.5	947.4	1034.2	1126.2	1229.0	1243.6	1206.2	1198.1	940.9
55°	545.4	550.3	608.4	728.1	865.8	1045.5	1172.5	1195.0	1176.7	1194.7	952.7
57.5°	282.4	286.3	332.2	438.4	587.2	826.3	1015.6	1089.4	1117.3	1211.9	989.5
60°	116.0	119.2	138.1	189.5	296.2	481.2	730.9	840.4	905.8	1106.8	878.7
62.5°	84.2	85.8	94.9	113.0	155.1	235.8	413.6	453.9	499.9	693.6	557.9
65°	70.9	72.7	80.0	91.0	113.2	144.6	176.7	177.7	195.8	282.6	206.8
67.5°	59.4	61.1	67.5	76.9	91.5	102.7	94.9	95.1	94.7	102.5	99.1
70°	46.3	47.6	54.1	64.1	71.7	65.9	74.2	82.1	78.7	81.8	86.5
72.5°	33.8	35.3	41.0	48.6	46.6	47.0	60.1	68.2	66.2	69.6	74.0
75°	24.5	25.4	28.3	24.3	25.6	30.9	42.3	46.6	48.6	51.5	55.4
77.5°	7.9	7.9	8.9	11.2	13.9	17.2	21.5	23.3	26.2	29.5	32.2
80°	4.0	4.2	5.0	6.2	7.8	9.9	12.6	13.4	14.9	16.7	17.8
82.5°	1.9	2.1	2.4	3.1	4.0	5.2	7.0	7.8	8.7	9.9	10.7
85°	0.5	0.5	0.6	1.0	1.3	1.9	2.6	3.1	3.9	4.7	5.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.6	0.8	1.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P629090

CATALOG NUMBER: GWS-SA1A-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2
2.5°	306.9	297.8	286.2	276.3	267.2	260.3	254.3	251.3	248.6	246.6	247.3
5°	315.3	299.8	278.1	263.0	253.8	249.1	245.8	244.2	243.9	242.6	242.1
7.5°	327.6	305.4	276.4	261.2	255.1	252.6	250.9	249.9	250.4	249.1	248.6
10°	342.8	314.8	280.5	267.1	261.7	259.9	258.0	256.7	256.0	254.1	253.8
12.5°	361.8	326.5	287.8	274.5	269.2	266.1	263.5	261.2	259.8	257.3	256.7
15°	382.2	339.4	296.4	281.8	275.5	270.9	266.7	263.3	260.7	257.5	257.0
17.5°	404.4	353.1	303.5	286.8	278.7	272.7	266.6	261.5	258.0	253.8	253.3
20°	427.5	366.8	308.8	289.2	278.9	270.8	262.5	255.9	251.3	247.1	246.8
22.5°	451.5	379.4	312.1	288.6	276.3	266.2	256.4	248.9	243.6	238.6	238.2
25°	475.6	391.6	312.9	286.0	271.1	259.4	249.6	240.8	234.8	229.2	228.5
27.5°	500.1	401.8	310.9	280.8	264.1	251.5	241.6	233.0	226.9	221.2	220.3
30°	526.2	410.5	306.7	274.0	256.0	243.1	233.4	226.9	221.1	215.4	214.4
32.5°	554.0	418.2	300.7	265.8	246.6	234.7	227.5	221.7	215.9	210.9	209.9
35°	587.2	423.2	291.8	255.1	237.9	228.5	223.7	216.9	209.7	204.2	203.7
37.5°	621.6	427.1	281.1	244.9	230.3	224.9	220.9	211.7	202.8	196.1	195.3
40°	654.8	430.3	267.9	235.3	223.3	222.4	216.9	205.4	190.0	182.5	181.9
42.5°	685.7	431.3	253.9	225.1	217.0	216.5	210.4	192.6	180.7	176.0	175.4
45°	706.9	430.5	239.5	215.6	210.7	208.1	201.6	183.3	176.0	171.8	171.0
47.5°	722.6	426.3	223.3	205.5	203.6	200.0	186.1	177.5	170.7	166.5	165.7
50°	719.9	408.8	207.0	195.8	195.0	191.9	174.7	170.2	164.2	159.7	159.0
52.5°	705.6	375.6	190.3	185.1	186.7	180.7	166.6	161.5	156.3	151.1	150.0
55°	709.2	351.6	177.7	174.7	177.7	164.1	157.6	152.1	147.2	142.2	141.2
57.5°	724.7	327.9	164.2	163.6	166.6	151.3	145.9	139.0	132.0	127.9	127.9
60°	608.6	239.0	140.6	142.2	149.2	140.9	136.2	129.1	121.5	117.9	117.9
62.5°	359.9	150.0	116.6	114.8	119.2	124.4	127.0	121.1	112.1	107.4	107.5
65°	158.5	109.2	102.8	101.4	100.1	103.6	110.8	111.3	101.7	96.2	96.4
67.5°	97.7	98.8	96.2	95.1	93.9	93.3	92.6	93.0	90.4	85.3	85.2
70°	88.1	91.2	89.4	88.4	87.0	85.8	81.9	75.6	71.3	70.0	71.4
72.5°	75.8	80.0	79.0	78.5	76.8	74.0	68.8	62.7	57.5	54.3	54.9
75°	57.2	60.6	61.1	61.2	59.3	56.7	51.3	46.2	41.6	38.2	39.0
77.5°	32.9	34.8	35.3	35.8	34.3	33.4	29.8	26.1	23.6	20.1	21.1
80°	18.3	19.1	19.1	19.3	18.5	17.3	14.9	12.8	11.7	10.0	10.2
82.5°	11.0	11.3	11.5	11.7	11.2	10.0	8.3	6.8	6.2	5.3	5.2
85°	5.3	5.7	5.7	5.8	5.0	4.4	3.4	2.6	2.3	1.6	1.8
87.5°	1.3	1.5	1.5	1.3	1.1	0.8	0.5	0.2	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

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)