

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P385601

Luminaire Tested: **GPC-SA1A-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GPC-SA1A-830-U-SL2
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3873 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

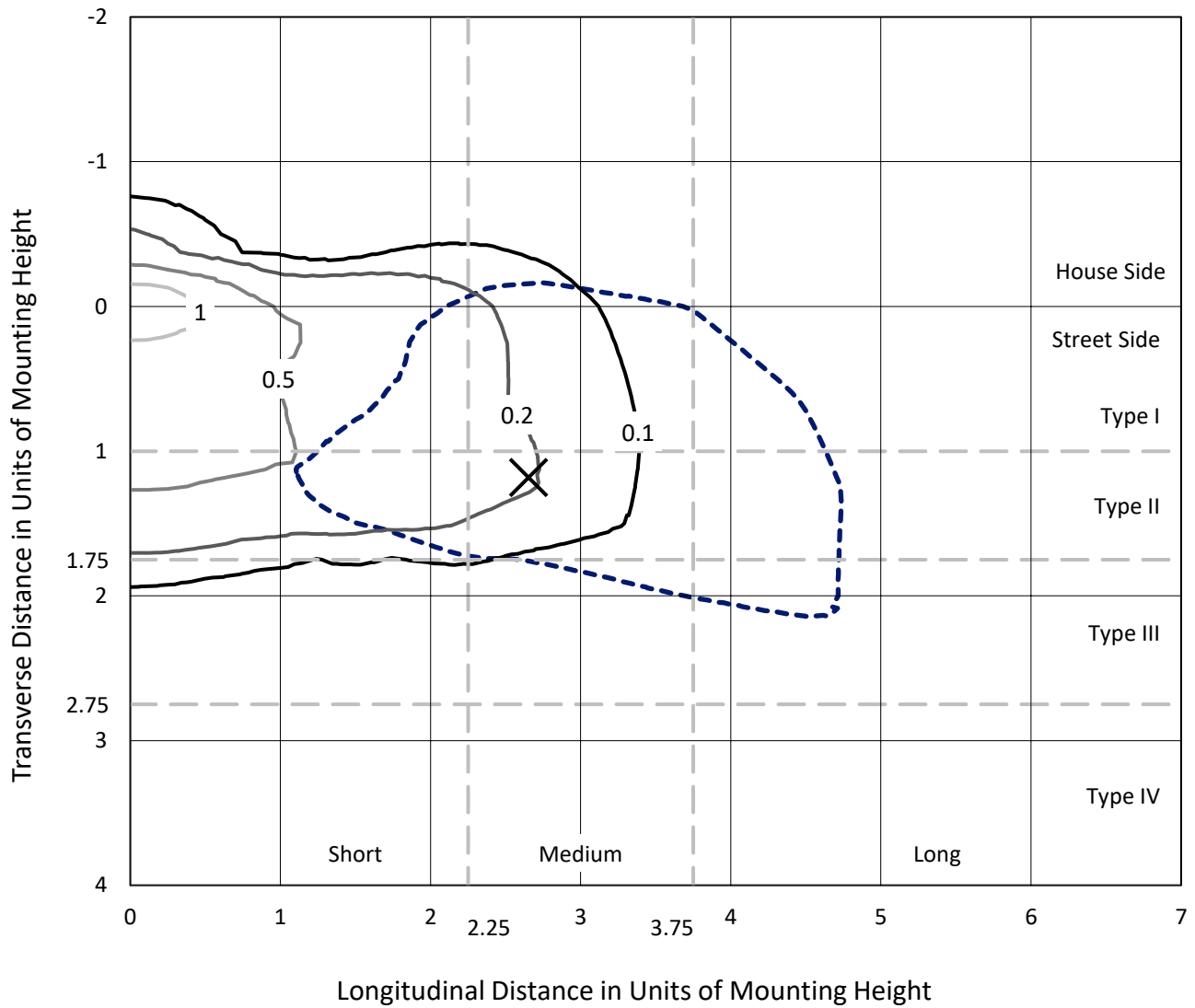
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P385601
 CATALOG NUMBER: GPC-SA1A-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

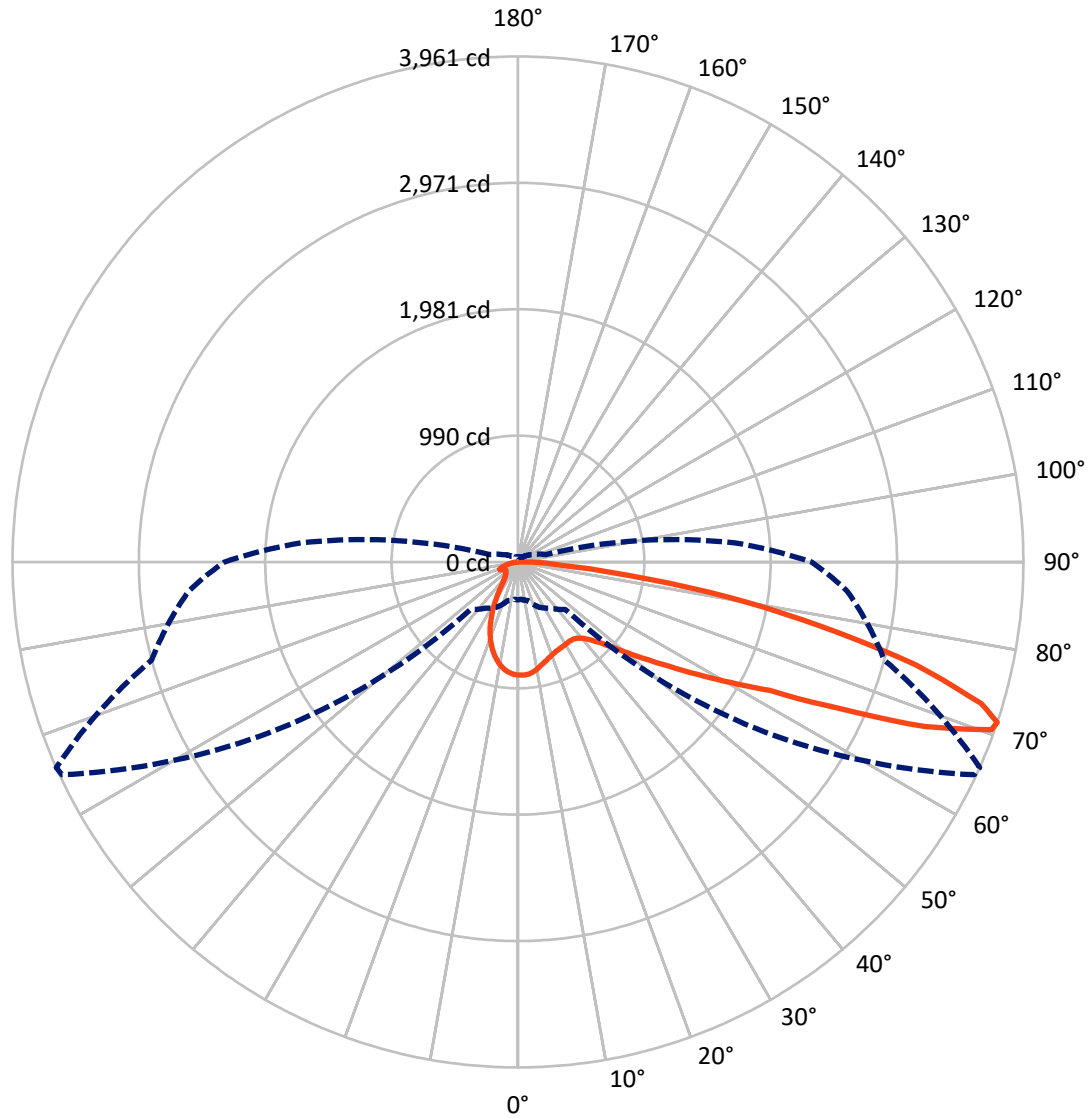
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P385601
CATALOG NUMBER: GPC-SA1A-830-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: GPC-SA1A-830-U-SL2

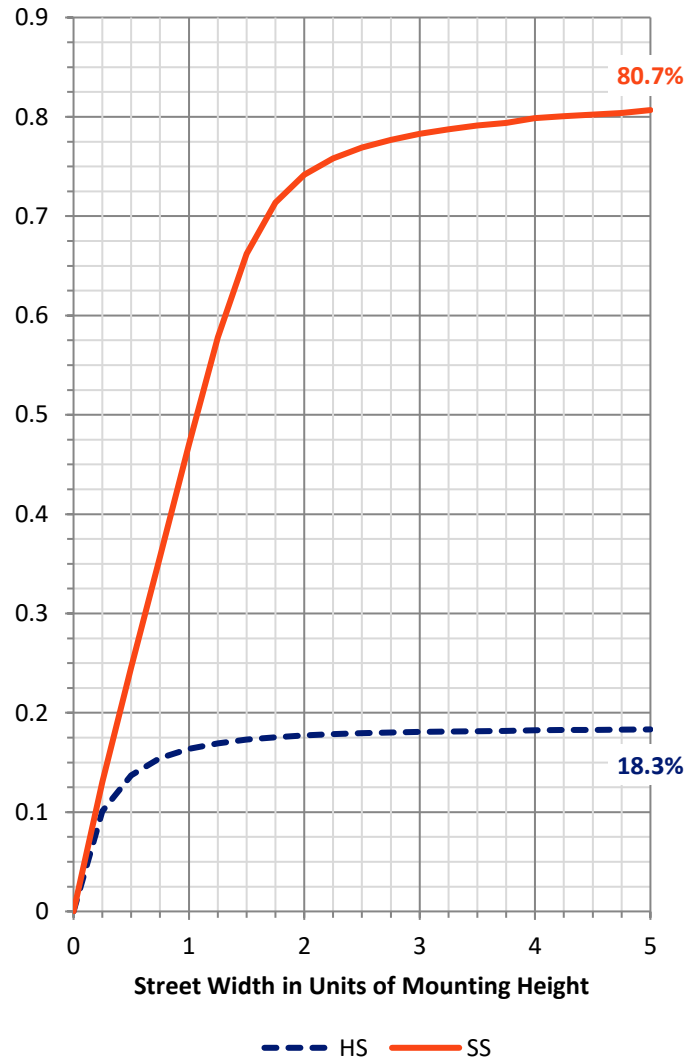
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	717.8	0.0	717.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	3155.2	0.0	3155.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	3873.0	0.0	3873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	2.0
10°-20°	187.3	4.8
20°-30°	251.6	6.5
30°-40°	331.0	8.5
40°-50°	481.5	12.4
50°-60°	752.1	19.4
60°-70°	942.2	24.3
70°-80°	718.7	18.6
80°-90°	130.5	3.4
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°	3873.0	100.0
0°-180°	3873.0	100.0

Coefficient of Utilization

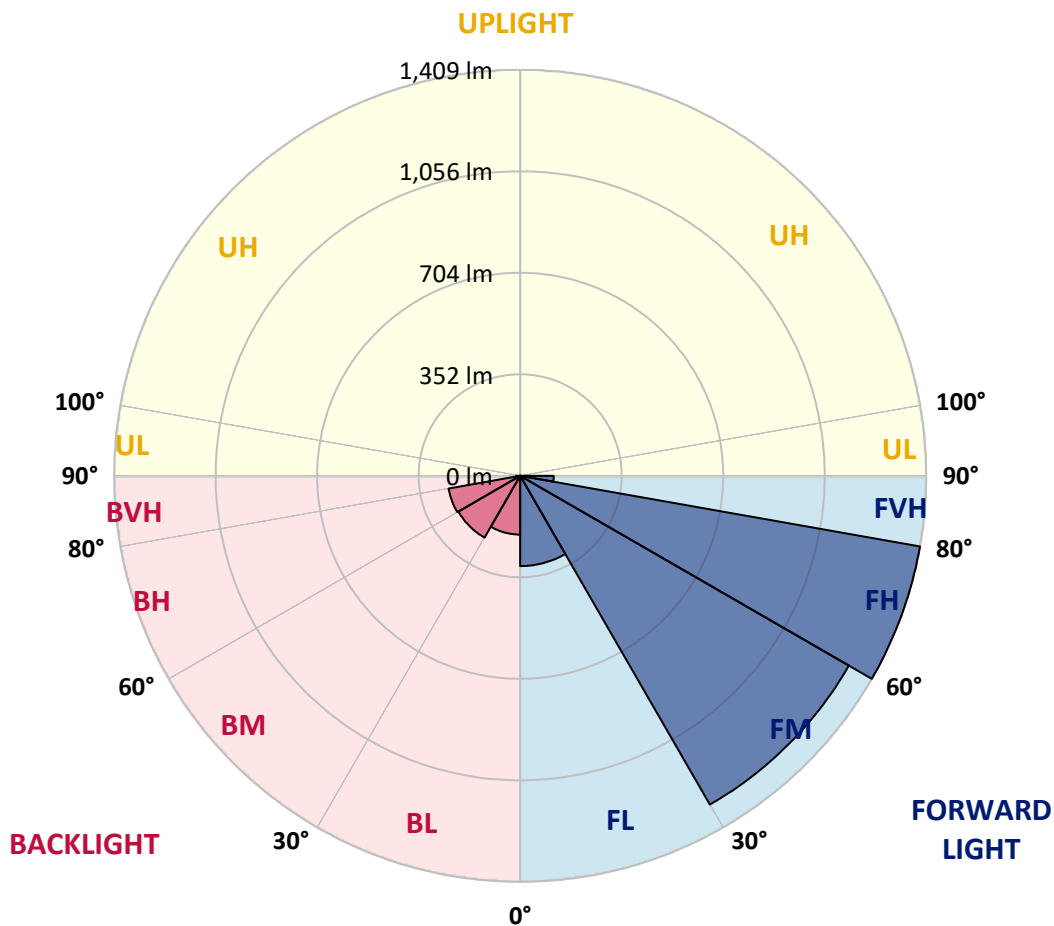


REPORT NUMBER: P385601
 CATALOG NUMBER: GPC-SA1A-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.2	8.1			
FM (30°-60°)	1317.0	34.0			
FH (60°-80°)	1408.6	36.4			G1/1800
FVH (80°-90°)	116.4	3.0			G2/225
BL (0°-30°)	203.8	5.3	B1/500		
BM (30°-60°)	247.6	6.4	B1/1000		
BH (60°-80°)	252.2	6.5	B1/500		G1/500
BVH (80°-90°)	14.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





REPORT NUMBER: P385601

CATALOG NUMBER: GPC-SA1A-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2
2.5°	870.8	869.4	873.5	877.6	879.2	881.9	885.9	888.2	888.0	888.4	887.1
5°	813.0	811.3	819.3	825.9	838.4	852.6	869.8	882.1	882.4	889.4	891.2
7.5°	758.3	757.1	766.3	776.9	791.5	813.1	841.1	867.6	869.2	888.0	894.6
10°	714.5	714.2	723.2	734.7	751.6	775.8	807.9	846.7	849.1	881.6	895.1
12.5°	680.2	680.8	688.5	701.6	719.5	744.8	779.6	823.3	827.2	871.5	892.0
15°	655.0	657.1	663.4	676.6	694.3	719.9	755.6	801.6	807.5	860.1	890.3
17.5°	640.5	642.9	647.3	658.3	674.9	699.6	733.5	783.9	789.2	851.4	890.4
20°	636.2	638.2	640.8	647.5	661.5	684.0	715.9	767.8	773.6	844.4	891.8
22.5°	644.7	646.1	646.4	645.9	654.4	672.7	703.2	756.1	762.2	839.9	892.7
25°	662.7	664.7	663.2	658.3	655.5	666.7	696.7	748.3	754.4	836.5	890.8
27.5°	689.9	690.1	688.9	682.5	669.3	667.4	694.7	743.7	749.6	832.7	887.0
30°	726.8	728.5	726.4	717.7	696.0	678.1	697.1	739.3	744.7	827.7	880.7
32.5°	770.0	774.2	774.1	765.0	734.0	702.0	707.0	736.7	740.8	822.5	873.1
35°	814.8	820.6	831.6	827.7	789.3	739.9	726.0	740.9	743.7	821.8	867.7
37.5°	861.3	867.2	889.8	900.2	855.3	794.0	755.9	756.1	757.4	830.0	867.3
40°	910.0	916.2	950.2	977.4	940.7	862.6	804.2	787.6	786.1	850.1	875.2
42.5°	978.2	983.8	1024.6	1059.2	1035.5	950.5	870.9	836.3	833.2	889.4	900.5
45°	1064.4	1069.2	1112.5	1149.6	1137.4	1050.8	954.8	903.3	902.7	954.9	951.7
47.5°	1167.0	1170.7	1209.6	1245.5	1249.9	1166.2	1060.1	1006.6	997.9	1044.8	1031.0
50°	1273.8	1278.0	1304.4	1342.9	1375.7	1320.6	1195.7	1133.3	1121.6	1163.4	1143.3
52.5°	1344.6	1350.0	1373.0	1421.8	1517.2	1489.9	1356.1	1286.8	1269.1	1307.1	1291.7
55°	1313.0	1325.3	1360.5	1438.7	1630.3	1748.5	1553.8	1465.8	1445.9	1477.5	1468.4
57.5°	1169.5	1186.4	1234.4	1355.1	1646.2	1976.4	1852.8	1676.7	1662.7	1653.6	1657.7
60°	907.3	923.5	983.0	1140.4	1535.4	2142.7	2302.8	1936.7	1916.3	1830.4	1834.1
62.5°	642.1	634.0	674.7	789.9	1247.6	2162.2	2814.8	2284.3	2217.5	2017.0	2000.6
65°	489.7	487.8	506.1	542.8	755.6	1928.6	3119.8	2868.7	2764.3	2236.6	2197.8
67.5°	402.4	399.0	417.1	470.4	486.6	1244.3	3126.5	3546.6	3444.1	2509.9	2425.9
70°	330.8	327.1	343.9	412.8	449.7	631.0	2631.3	3943.7	3938.2	2856.0	2598.2
71°	296.6	293.9	314.1	390.6	441.8	525.9	2271.9	3944.7	3961.2	2973.1	2588.0
72.5°	241.5	242.4	263.8	347.7	435.9	464.4	1669.8	3760.9	3795.6	3084.8	2495.6
75°	160.5	161.3	189.3	267.4	422.7	454.4	917.7	3155.8	3219.7	3017.9	2277.2
77.5°	107.8	107.5	126.6	183.5	368.3	454.4	538.1	2360.3	2430.5	2401.3	1755.6
80°	74.2	73.7	87.2	126.6	278.8	459.9	416.0	1654.1	1675.4	1296.8	713.5
82.5°	45.5	45.9	57.0	89.5	189.7	413.9	392.7	901.9	878.8	363.7	178.2
85°	26.1	25.9	36.4	60.6	121.8	349.3	383.0	388.2	356.1	109.5	64.5
87.5°	9.4	10.0	19.5	33.6	69.8	243.2	324.9	201.9	182.0	49.5	29.2
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: P385601
 CATALOG NUMBER: GPC-SA1A-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2
2.5°	886.2	887.0	886.0	880.7	876.1	868.8	864.6	858.9	857.1	856.3	858.5
5°	889.5	889.8	881.9	867.8	852.1	833.5	820.1	803.7	795.9	792.6	794.7
7.5°	892.6	891.4	874.1	847.2	818.1	785.7	757.0	730.6	715.3	709.0	709.5
10°	893.0	887.9	860.2	818.6	773.4	726.0	681.8	641.2	615.5	598.8	603.9
12.5°	888.8	880.3	839.8	781.6	718.9	654.2	594.5	533.5	496.9	479.9	480.5
15°	885.6	870.1	814.6	738.0	653.8	568.0	486.6	414.9	375.9	358.5	350.3
17.5°	883.0	859.1	785.5	688.9	576.9	468.2	370.3	306.4	285.0	279.9	277.7
20°	879.2	847.5	753.0	632.1	489.3	356.4	270.4	238.8	239.0	244.8	245.6
22.5°	874.0	834.3	718.3	568.3	395.3	259.5	211.9	202.9	212.1	223.3	225.3
25°	866.2	818.6	679.8	497.8	301.4	199.5	181.1	180.7	191.9	203.7	205.4
27.5°	855.3	798.2	637.0	422.2	222.1	169.6	162.2	165.0	173.3	181.9	182.5
30°	840.6	774.4	589.8	342.3	174.1	151.0	150.2	152.7	157.8	163.8	164.3
32.5°	824.4	750.2	539.4	265.0	149.1	140.9	141.7	142.9	145.4	147.8	148.3
35°	809.7	725.4	487.8	201.4	137.2	134.4	133.9	133.6	133.9	133.1	133.2
37.5°	800.2	705.0	434.1	160.3	130.4	128.6	127.0	125.0	122.8	121.4	121.7
40°	796.7	689.7	379.6	138.5	124.8	123.6	120.5	116.2	113.5	112.7	112.7
42.5°	806.1	681.8	327.1	127.6	120.1	118.1	113.0	108.0	106.0	105.9	105.8
45°	834.7	685.0	277.1	121.6	115.8	111.9	105.2	101.1	99.8	100.0	99.9
47.5°	886.0	705.2	234.3	117.5	111.5	106.4	99.0	95.6	94.0	94.0	94.1
50°	973.3	752.4	200.2	114.2	107.9	101.4	94.4	90.3	88.1	88.0	88.0
52.5°	1100.5	837.0	178.9	111.4	103.9	96.8	89.9	84.6	82.1	81.6	81.3
55°	1259.9	958.1	173.0	109.5	98.6	91.9	84.4	79.2	76.4	75.2	75.0
57.5°	1438.2	1105.5	184.7	107.2	93.1	86.0	78.4	73.4	70.5	69.0	68.9
60°	1618.5	1266.3	232.1	104.0	88.5	79.6	72.2	67.7	64.7	63.1	62.8
62.5°	1799.2	1435.9	329.1	103.8	85.3	73.4	65.9	62.0	59.2	57.5	57.1
65°	2003.0	1621.5	439.3	110.9	84.2	67.8	59.5	56.4	54.0	52.4	52.3
67.5°	2237.0	1831.0	428.7	125.4	87.9	62.7	53.5	51.1	49.3	48.0	47.9
70°	2346.8	1798.3	266.5	135.7	92.9	57.8	47.7	46.0	44.7	43.7	43.3
71°	2300.8	1707.5	223.4	134.5	92.4	55.6	45.5	44.1	42.8	42.0	41.6
72.5°	2175.3	1557.2	186.4	125.2	86.4	51.7	42.5	41.2	40.0	39.0	38.8
75°	1952.0	1390.7	149.2	100.0	68.9	43.7	37.3	35.8	34.9	34.4	33.8
77.5°	1434.9	992.5	115.4	79.0	50.7	35.7	31.8	30.8	29.8	29.0	28.6
80°	549.7	384.4	77.7	59.0	37.2	28.2	25.7	25.1	24.2	23.7	23.7
82.5°	148.0	114.9	41.5	35.7	24.9	20.6	19.7	19.4	18.6	17.5	17.7
85°	59.9	50.7	23.3	19.7	15.2	12.2	13.2	13.4	12.4	11.1	11.2
87.5°	26.3	21.5	13.0	8.7	6.7	4.7	6.0	6.0	5.5	4.5	4.1
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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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)