

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: P386293

Luminaire Tested: **GPC-SA1D-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GPC-SA1D-830-U-T4W
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6539 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

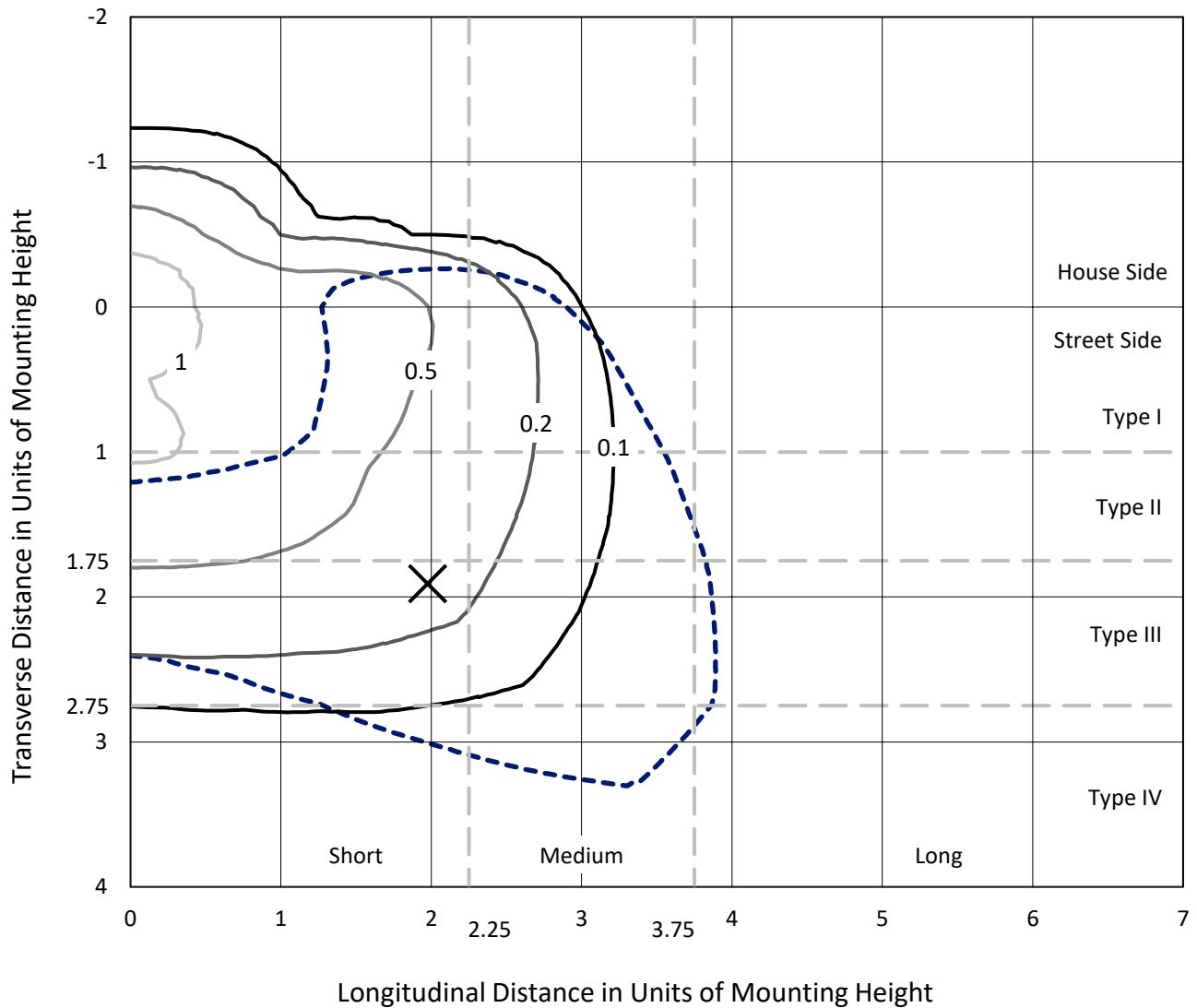
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

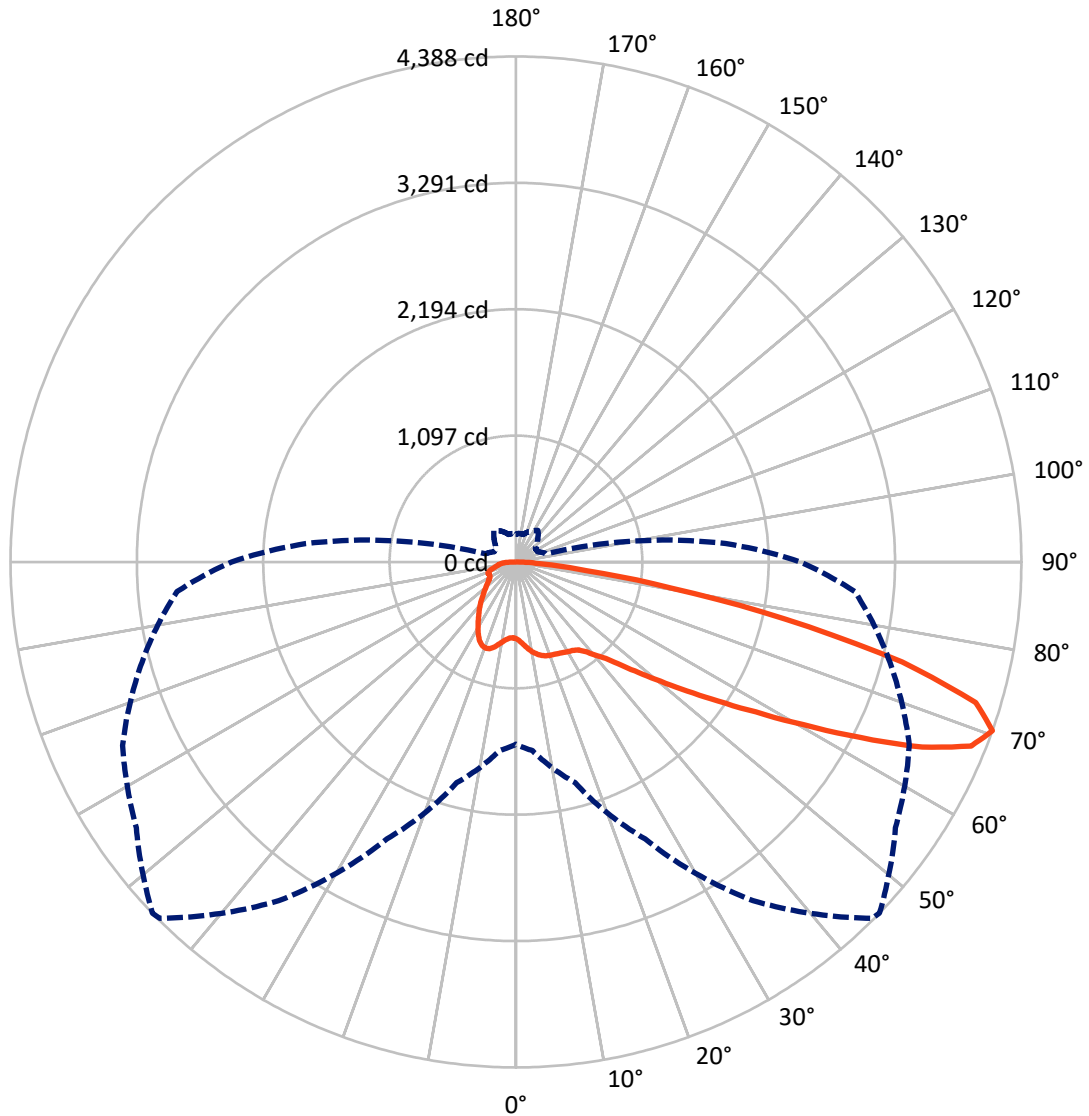
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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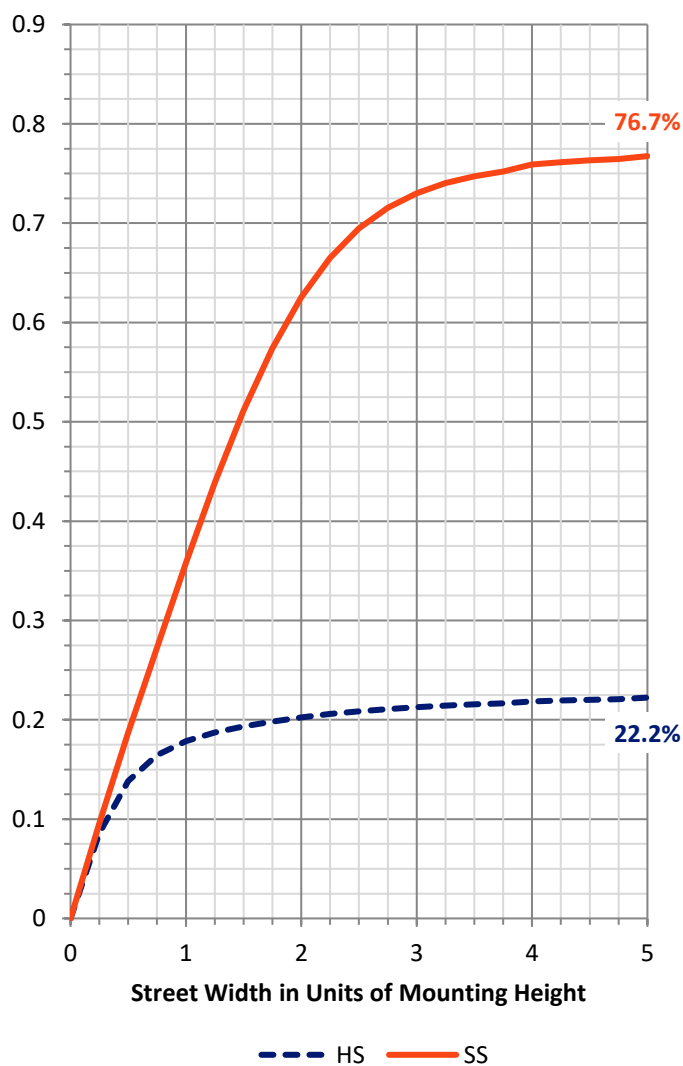
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.7	0.0	1498.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5040.3	0.0	5040.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	6539.0	0.0	6539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.0
10°-20°	226.3	3.5
20°-30°	377.3	5.8
30°-40°	535.4	8.2
40°-50°	787.5	12.0
50°-60°	1333.6	20.4
60°-70°	1893.1	29.0
70°-80°	1150.1	17.6
80°-90°	167.8	2.6
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°	6539.0	100.0
0°-180°	6539.0	100.0

Coefficient of Utilization

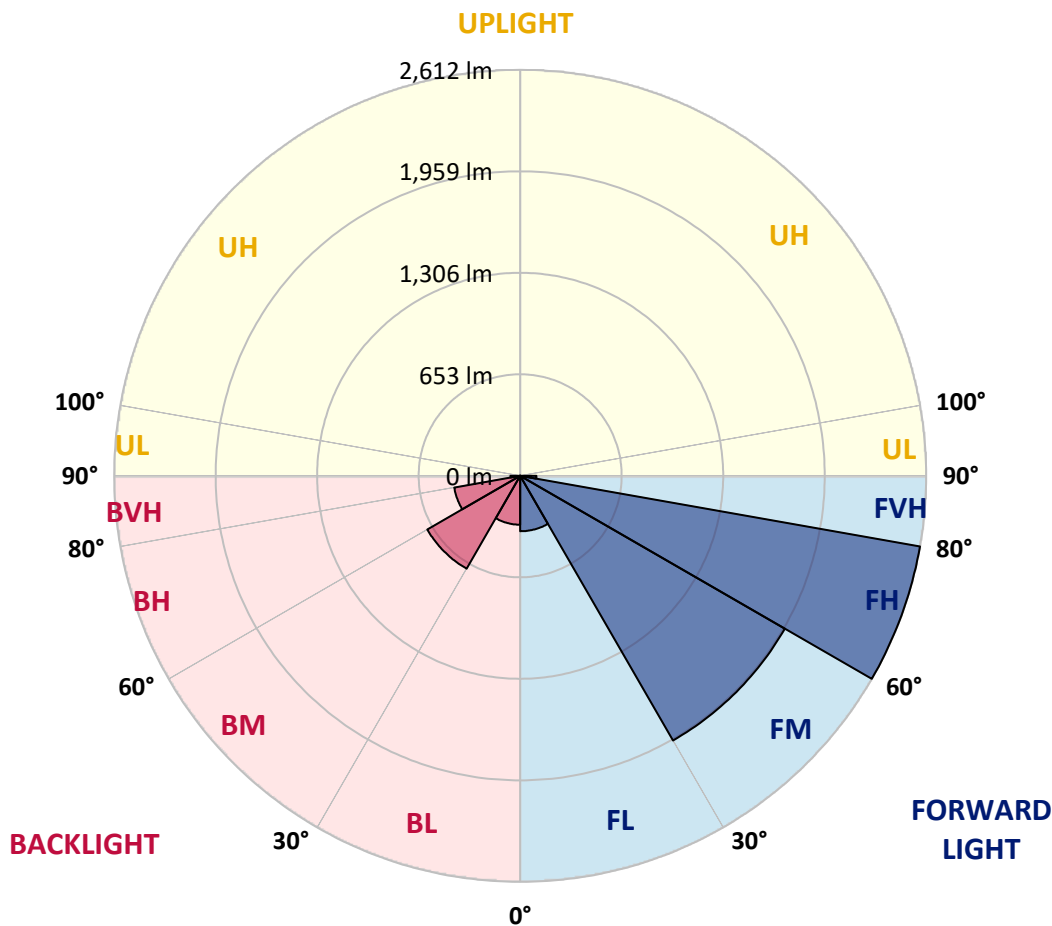


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.8	5.5			
FM (30°-60°)	1966.6	30.1			
FH (60°-80°)	2612.3	39.9			G2/5000
FVH (80°-90°)	104.5	1.6			G2/225
BL (0°-30°)	314.7	4.8	B1/500		
BM (30°-60°)	689.9	10.6	B1/1000		
BH (60°-80°)	430.9	6.6	B1/500		G1/500
BVH (80°-90°)	63.3	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	666.2	666.2	666.2	666.2	666.2	666.2	666.2	666.2	666.2	666.2	666.2
2.5°	699.5	700.0	700.9	698.6	692.4	690.6	689.9	683.4	679.2	672.9	667.5
5°	755.5	755.9	754.6	748.3	734.4	724.2	723.3	708.5	695.1	680.7	670.0
7.5°	813.9	814.6	810.3	798.5	779.0	761.1	760.0	739.8	719.5	697.7	681.6
10°	865.6	862.9	856.0	839.4	816.4	794.4	793.5	772.5	749.0	722.8	701.3
12.5°	900.0	897.8	888.9	868.7	843.4	823.3	821.5	802.0	779.2	750.6	724.8
15°	919.1	920.6	908.6	885.7	861.1	844.1	842.5	828.7	808.3	779.4	749.9
17.5°	921.5	922.9	911.2	888.6	868.5	856.9	856.2	847.0	832.2	804.5	773.6
20°	907.2	908.1	898.5	879.9	866.7	863.1	862.9	858.9	847.9	823.3	793.3
22.5°	886.4	887.1	880.1	866.7	862.2	867.8	869.4	867.8	860.0	836.9	808.7
25°	881.2	880.8	873.6	860.0	863.8	875.7	877.7	878.3	873.0	852.8	828.4
27.5°	906.1	904.5	890.9	868.9	871.4	885.7	888.4	894.9	891.5	873.9	850.8
30°	977.9	975.2	947.3	903.0	890.9	898.3	901.6	911.9	912.6	897.8	880.6
32.5°	1099.2	1095.9	1045.7	966.5	923.8	911.0	914.1	929.6	937.9	926.5	907.9
35°	1252.5	1248.7	1182.9	1074.6	978.8	935.4	937.6	950.0	966.5	950.4	925.8
37.5°	1412.3	1403.1	1339.8	1201.7	1066.3	987.5	987.5	989.1	996.9	963.4	946.8
40°	1571.2	1562.0	1504.7	1351.2	1179.5	1069.7	1064.5	1029.8	1023.6	994.7	989.1
42.5°	1718.9	1716.2	1682.4	1520.1	1312.5	1150.5	1143.3	1084.4	1085.8	1067.9	1068.1
45°	1876.0	1876.0	1848.4	1690.7	1467.3	1280.3	1273.1	1186.5	1199.9	1191.6	1211.6
47.5°	2004.2	2008.2	2004.4	1868.3	1647.5	1445.2	1432.2	1327.9	1365.5	1393.9	1451.9
50°	2135.1	2141.4	2142.0	2063.3	1865.2	1641.2	1626.4	1515.7	1599.6	1681.0	1794.9
52.5°	2325.1	2339.2	2283.0	2257.7	2132.0	1873.9	1859.4	1757.1	1897.2	2011.6	2207.8
55°	2501.2	2488.9	2448.8	2464.5	2417.5	2138.9	2127.9	2038.2	2228.9	2377.4	2632.3
57.5°	2596.5	2595.6	2635.9	2703.1	2725.4	2465.6	2456.4	2369.2	2602.8	2714.5	3030.9
60°	2708.4	2710.0	2809.8	2962.2	3054.4	2872.5	2868.4	2802.2	2966.0	3029.1	3343.5
62.5°	2724.1	2752.3	2924.1	3186.4	3362.3	3347.8	3356.7	3192.2	3290.9	3280.2	3576.9
65°	2543.9	2581.1	2892.1	3254.2	3668.4	3867.6	3875.9	3584.5	3547.2	3494.8	3660.4
67.5°	2174.7	2229.8	2567.7	3106.8	3769.4	4251.8	4263.5	3888.6	3759.7	3567.5	3459.4
70°	1582.6	1643.7	1983.8	2653.4	3589.4	4374.7	4387.9	4023.1	3767.8	3360.5	2953.2
72.5°	956.0	1003.9	1284.3	1953.4	3029.5	4150.9	4174.4	3852.6	3440.0	2846.5	2180.7
75°	419.8	451.1	621.0	1125.6	2168.9	3434.4	3463.7	3297.6	2795.0	2068.6	1289.0
77.5°	178.8	187.8	254.7	489.0	1226.1	2346.8	2387.1	2409.5	1896.3	1125.6	544.7
80°	111.4	115.0	144.1	221.3	573.8	1318.1	1361.5	1417.7	941.7	413.8	190.2
82.5°	67.8	71.8	95.8	133.8	298.7	597.5	618.3	657.9	365.4	178.8	98.5
85°	40.7	43.6	58.6	84.6	170.1	235.0	234.7	259.6	172.1	115.0	51.9
87.5°	19.5	21.7	31.3	43.9	85.7	88.2	82.6	93.5	104.5	75.4	26.2
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: GPC-SA1D-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	666.2	666.2	666.2	666.2	666.2	666.2	666.2	666.2	666.2	666.2	666.2
2.5°	665.7	664.9	661.9	659.7	659.3	657.9	656.8	657.5	658.4	658.6	658.6
5°	665.5	663.1	659.3	657.7	659.7	662.4	665.7	670.2	672.9	674.9	676.3
7.5°	676.3	671.6	667.3	666.4	670.4	677.6	685.2	694.6	701.1	705.6	706.5
10°	694.2	688.4	684.1	685.0	692.2	702.4	713.2	725.3	735.1	741.2	741.6
12.5°	714.8	709.2	705.1	708.9	720.8	733.3	744.5	755.0	764.0	770.0	770.0
15°	738.5	734.4	729.7	738.5	754.6	765.8	770.5	775.6	780.5	785.0	784.1
17.5°	761.3	757.5	755.0	765.3	782.1	787.3	784.1	780.3	780.3	782.8	783.2
20°	781.0	777.6	779.2	789.3	798.0	792.6	781.0	768.9	764.0	765.3	766.7
22.5°	798.2	796.7	801.4	806.1	799.8	781.0	759.5	743.2	737.1	736.7	737.1
25°	818.4	818.1	824.0	815.5	787.7	753.0	724.2	708.3	704.9	707.6	712.1
27.5°	843.4	845.9	848.8	817.7	763.1	710.7	681.4	670.4	673.8	680.3	684.5
30°	875.4	882.1	875.9	812.1	727.7	662.4	634.4	631.3	640.5	649.6	654.1
32.5°	906.5	917.1	901.8	797.6	682.1	611.1	589.4	588.5	599.7	608.7	615.0
35°	931.6	952.4	921.3	768.7	629.3	563.9	548.0	542.0	546.0	556.5	563.7
37.5°	964.3	999.0	934.7	724.6	572.0	525.0	506.4	492.5	489.0	493.2	496.8
40°	1024.0	1069.9	941.0	663.1	516.0	486.1	467.3	446.9	432.8	422.5	422.7
42.5°	1121.6	1162.3	937.0	588.3	464.3	448.0	426.8	403.3	380.4	357.2	355.4
45°	1280.0	1299.7	924.9	509.1	418.9	408.2	388.3	364.8	334.3	307.9	305.5
47.5°	1533.6	1489.9	906.1	440.0	378.9	374.4	356.0	329.0	296.7	275.5	273.7
50°	1879.3	1764.5	896.9	384.9	343.5	344.8	329.9	301.2	270.8	255.1	253.3
52.5°	2292.9	2084.3	914.6	342.4	315.1	319.8	308.6	281.7	256.2	243.9	242.1
55°	2721.8	2415.5	933.6	311.5	288.2	297.4	293.6	271.4	248.4	237.0	235.4
57.5°	3089.1	2662.8	895.6	286.4	264.3	278.6	282.0	265.0	244.4	234.1	232.3
60°	3320.2	2762.4	795.8	262.9	245.3	263.6	275.3	263.2	245.9	245.0	243.7
62.5°	3429.9	2753.6	646.1	244.4	233.4	257.1	280.2	273.2	263.8	271.9	272.6
65°	3380.7	2622.0	481.1	232.1	224.9	259.6	294.9	292.3	269.0	277.0	278.2
67.5°	3056.6	2308.1	356.3	221.3	215.5	266.5	321.8	298.5	258.9	264.7	261.2
70°	2470.5	1829.9	274.8	209.2	205.9	265.6	333.9	294.7	247.9	249.3	239.7
72.5°	1703.6	1247.8	223.6	198.0	192.0	242.1	325.4	285.3	238.8	228.5	215.7
75°	926.5	669.8	190.0	186.4	167.6	212.6	309.7	278.6	230.5	216.8	209.7
77.5°	364.5	277.9	164.9	170.5	146.6	187.8	292.3	265.9	219.1	201.2	197.6
80°	148.8	141.9	136.7	147.5	126.0	164.3	271.2	250.9	205.4	186.6	179.5
82.5°	84.4	88.2	106.3	116.4	102.3	151.3	261.2	238.8	189.1	167.2	158.7
85°	43.2	51.7	74.1	83.5	75.2	128.7	240.6	209.0	151.7	128.0	128.7
87.5°	20.8	28.9	46.8	52.4	48.8	93.1	179.7	151.5	118.2	93.5	90.6
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)