

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: P320145

Luminaire Tested: **GLEON-SA1A-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3685 lumens
Efficiency: N/A
Efficacy: 108.4 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

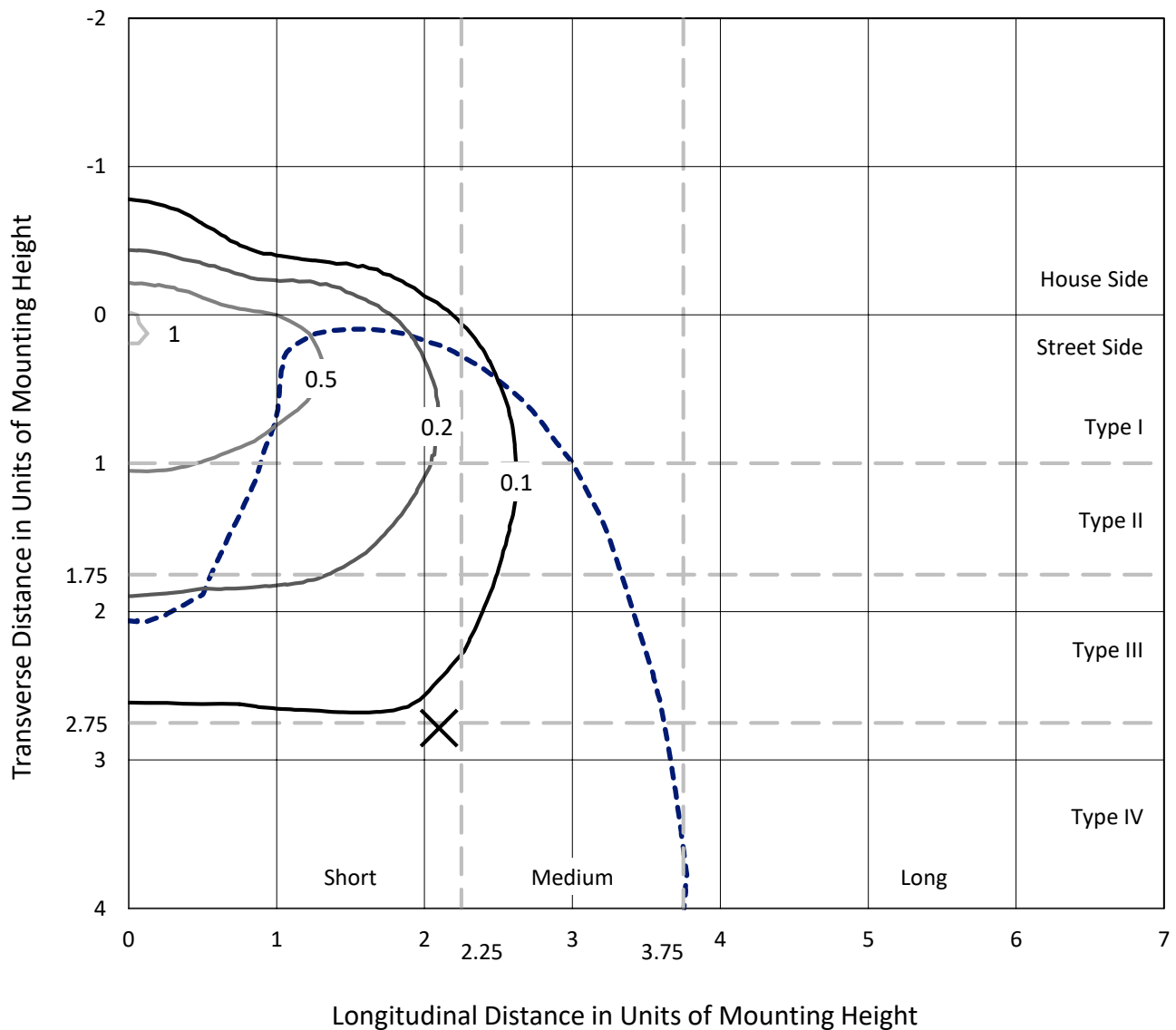
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

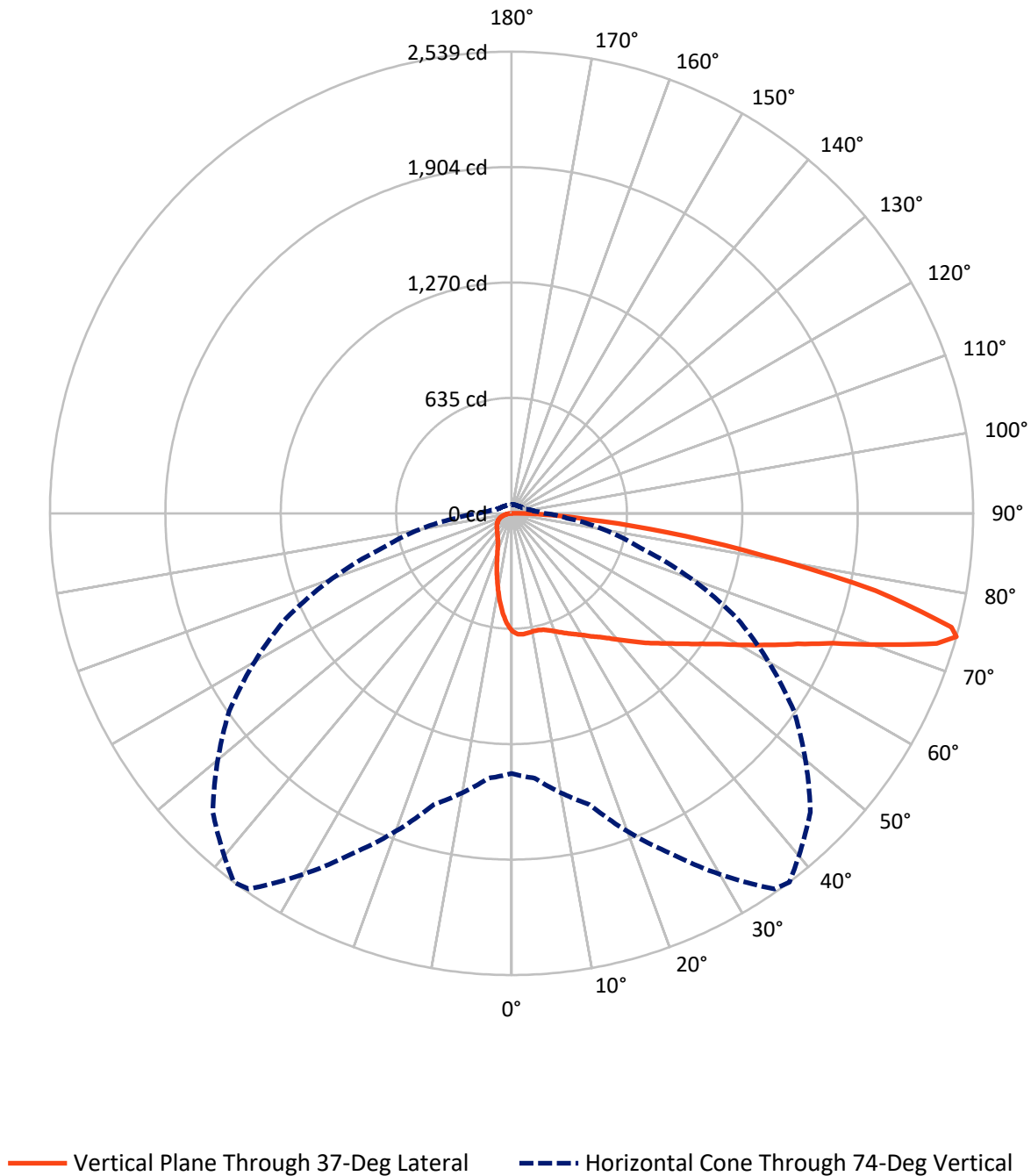
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.0	0.0	507.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	3178.0	0.0	3178.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	3685.0	0.0	3685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	1.6
10°-20°	146.6	4.0
20°-30°	225.8	6.1
30°-40°	328.4	8.9
40°-50°	483.3	13.1
50°-60°	678.7	18.4
60°-70°	859.1	23.3
70°-80°	756.4	20.5
80°-90°	149.6	4.1
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°	3685.0	100.0
0°-180°	3685.0	100.0

Coefficient of Utilization



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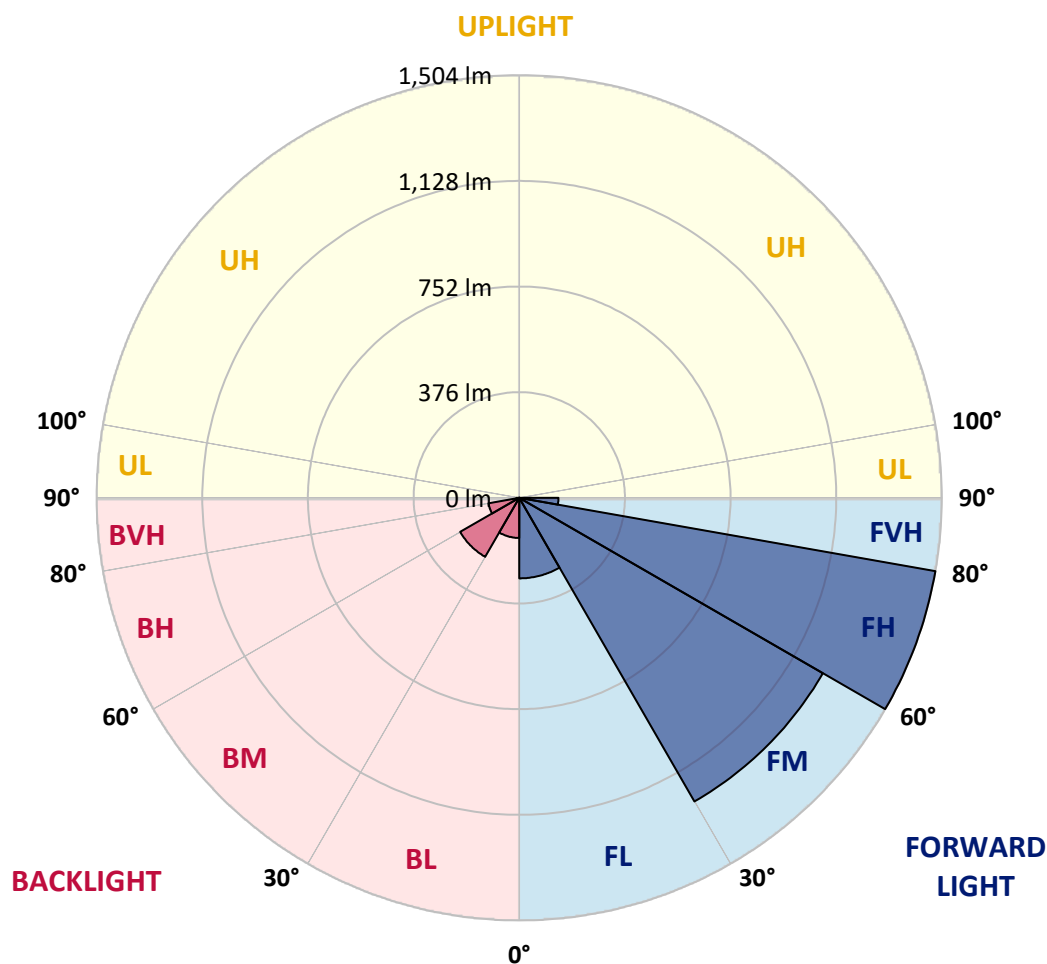
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	286.7	7.8			
FM	(30°-60°)	1247.8	33.9			
FH	(60°-80°)	1504.0	40.8			G1/1800
FVH	(80°-90°)	139.4	3.8			G2/225
BL	(0°-30°)	142.8	3.9	B1/500		
BM	(30°-60°)	242.6	6.6	B1/1000		
BH	(60°-80°)	111.4	3.0	B1/500		G1/500
BVH	(80°-90°)	10.1	0.3			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°	37°	45°	55°	65°	75°	85°
0°	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3
2.5°	671.5	671.6	671.5	670.4	668.0	665.9	664.2	661.7	656.3	652.1	645.9
5°	677.8	677.1	676.5	674.6	670.7	668.4	665.1	660.4	651.5	643.2	633.1
7.5°	674.9	673.9	672.8	670.4	666.0	664.1	659.5	653.4	642.7	631.8	617.2
10°	665.6	665.4	664.9	664.3	660.6	659.0	654.9	648.4	637.7	624.5	607.5
12.5°	655.4	656.0	658.1	660.8	659.1	658.4	655.8	651.4	640.5	626.2	605.7
15°	648.9	650.7	656.3	663.4	664.9	664.6	664.0	661.1	649.5	633.7	609.8
17.5°	646.7	649.7	660.3	672.1	676.3	677.2	677.5	672.5	659.7	642.9	614.1
20°	650.7	654.5	670.1	686.3	692.9	693.4	692.2	683.7	669.3	650.8	616.4
22.5°	662.9	666.3	685.8	704.1	711.6	712.4	708.9	695.9	679.4	660.2	619.7
25°	686.4	690.6	710.0	728.3	732.2	732.4	727.3	711.2	692.6	673.3	626.7
27.5°	717.0	721.2	738.7	756.6	754.6	753.4	746.5	730.4	709.9	691.3	639.2
30°	751.2	755.7	772.3	785.1	780.1	777.8	772.2	751.4	733.9	716.0	658.2
32.5°	786.5	790.6	805.2	813.9	807.6	806.6	798.2	779.2	765.2	753.6	689.1
35°	822.7	825.7	840.0	844.9	836.6	836.3	834.0	816.6	807.8	813.2	734.0
37.5°	859.7	860.5	872.7	872.9	870.5	871.5	874.0	863.1	865.5	882.5	792.5
40°	892.7	894.7	903.6	906.3	910.6	914.2	926.5	919.4	938.5	968.6	865.1
42.5°	917.1	921.1	935.2	942.3	956.1	961.9	979.2	985.9	1024.3	1069.5	951.6
45°	937.7	943.9	966.7	981.1	1004.6	1014.6	1039.5	1061.7	1121.3	1178.9	1042.6
47.5°	960.0	968.0	996.4	1023.9	1055.8	1067.1	1112.4	1145.7	1224.7	1289.0	1128.4
50°	992.9	999.0	1026.8	1070.0	1109.8	1124.4	1187.1	1234.7	1329.8	1393.8	1202.8
52.5°	1038.7	1036.4	1059.9	1120.5	1174.0	1191.9	1266.8	1329.5	1436.4	1488.7	1265.6
55°	1084.8	1080.9	1097.4	1173.3	1248.7	1267.5	1354.5	1424.6	1537.8	1574.1	1313.8
57.5°	1136.1	1128.7	1142.5	1232.9	1333.9	1356.3	1452.8	1525.7	1637.5	1643.2	1344.4
60°	1188.9	1178.9	1194.5	1306.7	1442.0	1468.5	1567.8	1624.4	1731.5	1698.5	1354.3
62.5°	1235.1	1228.1	1252.1	1389.2	1563.9	1593.0	1680.7	1729.3	1824.1	1721.5	1318.7
65°	1275.5	1276.6	1318.2	1481.8	1699.8	1730.8	1810.3	1858.5	1897.1	1707.8	1235.5
67.5°	1323.6	1330.2	1401.1	1603.9	1870.9	1904.9	1998.7	1999.5	1937.9	1627.9	1071.7
70°	1393.8	1407.5	1515.2	1773.1	2114.1	2160.9	2233.3	2082.3	1880.6	1411.1	843.2
72.5°	1456.1	1481.6	1636.6	1966.8	2410.6	2446.0	2370.5	2034.6	1641.4	1057.5	525.3
74°	1430.8	1462.4	1658.6	2062.2	2522.2	2539.2	2324.2	1895.1	1368.5	732.4	305.3
75°	1376.3	1410.6	1626.5	2061.3	2508.1	2498.6	2212.3	1735.9	1127.1	499.5	203.1
77.5°	1110.7	1147.0	1370.5	1766.6	2056.5	2047.5	1699.4	1164.5	493.6	163.8	103.2
80°	645.8	673.4	850.7	1121.9	1386.7	1402.9	1117.6	576.2	194.2	92.0	70.0
82.5°	286.9	305.9	411.0	572.7	836.9	857.7	585.3	301.9	119.9	55.9	42.1
85°	188.2	202.4	249.5	272.7	398.5	412.8	286.5	235.1	79.2	30.8	30.9
87.5°	135.4	149.0	185.4	161.9	182.9	173.2	155.9	217.6	31.8	17.5	10.4
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: GLEON-SA1A-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3
2.5°	643.2	641.1	636.4	627.6	622.7	618.5	611.6	607.6	605.8	605.7	606.4
5°	627.2	622.4	610.3	595.5	583.7	573.0	559.6	551.5	545.8	542.5	543.4
7.5°	608.7	601.1	582.2	558.5	539.6	518.7	498.1	485.7	476.1	469.0	470.3
10°	595.9	585.5	557.9	523.9	492.3	462.0	433.5	416.5	403.0	392.7	393.4
12.5°	591.6	577.6	539.3	493.9	449.6	408.1	371.0	344.9	331.0	319.2	320.1
15°	592.3	573.5	523.8	466.9	411.2	358.9	313.9	283.4	264.5	256.4	256.5
17.5°	592.8	568.7	507.4	438.0	373.2	313.0	264.0	233.1	215.3	207.8	207.9
20°	591.1	560.9	487.2	404.7	333.5	270.8	223.4	197.2	183.7	177.8	177.8
22.5°	588.9	551.7	464.3	371.4	294.3	234.2	194.3	174.3	166.5	162.6	162.5
25°	590.0	544.8	440.9	337.1	258.2	205.0	175.0	161.7	156.5	154.1	153.9
27.5°	595.5	541.5	419.4	303.0	226.6	183.0	162.0	152.7	149.3	147.7	147.7
30°	605.7	541.5	396.9	273.9	200.4	166.8	152.0	145.6	143.3	142.3	142.3
32.5°	623.3	544.5	375.3	245.1	179.5	154.1	143.7	139.4	137.6	137.1	137.1
35°	653.7	554.7	354.1	217.8	162.6	143.7	135.8	133.3	132.0	131.9	132.3
37.5°	696.4	575.3	334.2	197.7	150.7	135.3	129.2	127.2	126.4	127.1	127.6
40°	750.1	603.3	316.2	179.5	141.6	128.5	123.1	121.8	121.4	122.3	123.1
42.5°	815.0	641.2	301.4	166.4	134.6	122.8	117.9	116.3	115.9	117.0	118.0
45°	885.3	682.0	291.0	156.7	129.2	118.5	113.3	111.6	110.9	111.4	112.5
47.5°	949.1	720.5	286.9	149.8	124.0	114.9	109.3	107.2	105.9	105.7	106.6
50°	1003.0	749.2	288.8	145.6	119.8	110.9	105.4	103.1	101.1	99.9	100.6
52.5°	1042.2	767.3	290.6	143.8	116.6	106.4	101.1	98.9	96.3	94.4	94.4
55°	1070.6	771.4	286.6	142.4	114.1	101.6	96.3	94.2	91.6	89.4	89.2
57.5°	1081.8	759.7	271.7	140.3	112.4	97.1	91.3	89.7	87.5	84.9	84.8
60°	1066.7	723.7	242.9	135.9	110.2	93.3	86.2	85.2	84.1	81.6	81.5
62.5°	1006.2	644.5	205.6	126.9	105.8	89.3	81.5	82.0	82.2	80.5	80.2
65°	896.6	535.7	169.3	115.3	99.2	84.5	76.7	79.2	80.6	80.3	80.0
67.5°	737.2	416.9	143.4	102.9	90.5	77.9	71.5	74.4	75.5	76.5	76.2
70°	547.1	294.0	118.6	90.0	80.0	70.1	64.8	66.2	65.4	66.5	66.8
72.5°	305.0	176.4	96.7	77.0	69.1	61.0	57.2	57.0	55.3	55.3	55.3
74°	183.0	129.4	85.0	68.9	62.4	55.0	51.8	50.6	49.1	49.2	49.1
75°	147.2	111.2	78.0	63.6	57.8	51.5	48.3	46.7	45.6	45.6	45.4
77.5°	92.9	84.5	62.8	50.6	46.2	42.4	40.2	38.2	38.2	38.0	37.9
80°	70.2	67.2	48.9	38.3	35.4	32.6	31.2	30.2	30.2	30.6	30.5
82.5°	48.2	50.6	34.4	26.7	25.3	23.2	23.0	23.1	22.7	22.2	22.1
85°	35.2	38.0	23.2	16.9	15.4	14.1	15.2	15.7	15.1	13.9	13.4
87.5°	13.5	24.9	12.5	7.0	6.5	5.6	6.5	6.7	7.3	5.7	5.8
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
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



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 ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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 $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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TM-30-18

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)