

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: P321425

Luminaire Tested: **GLEON-SA1A-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3130 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

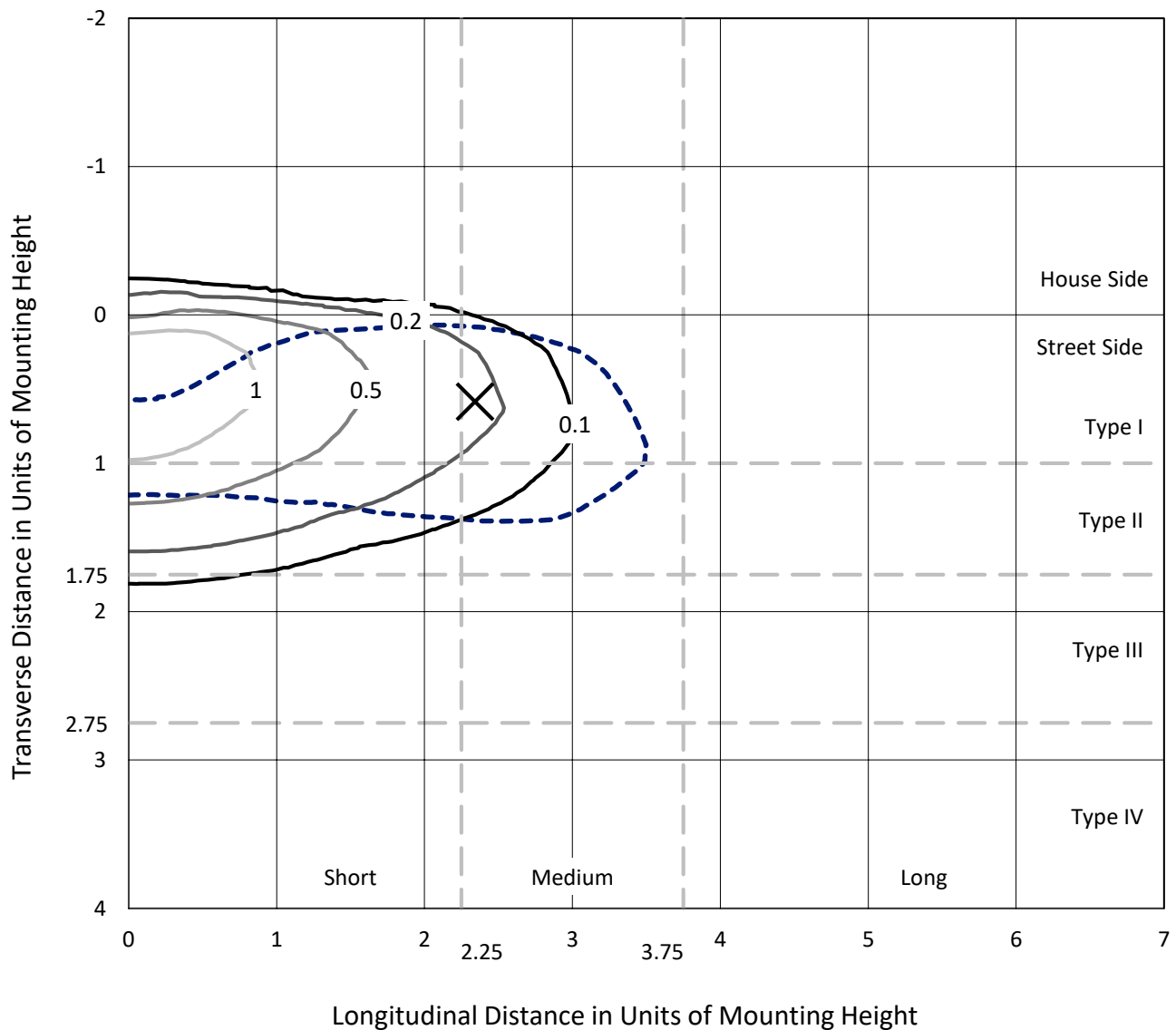
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

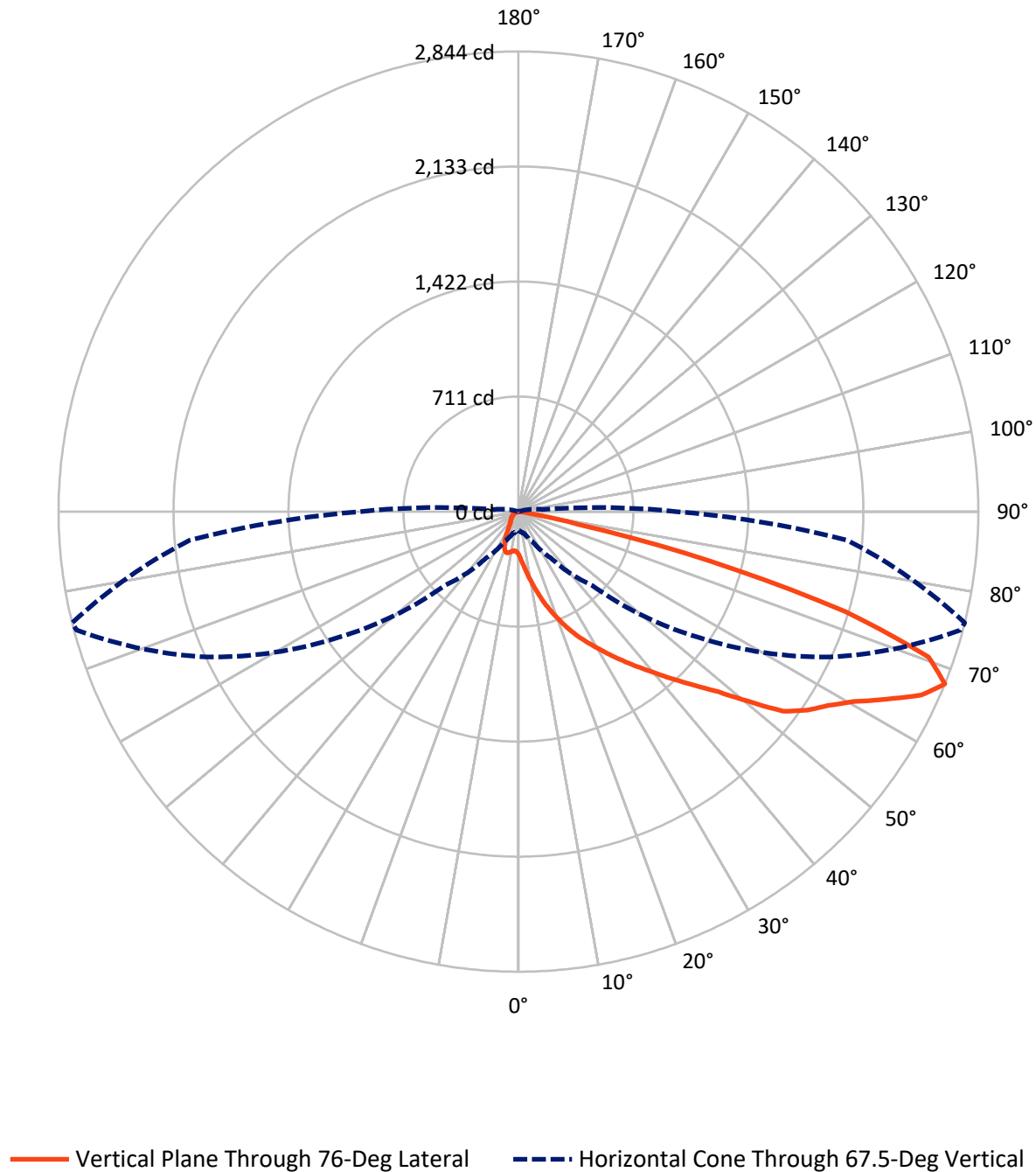
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	155.4	0.0	155.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2974.6	0.0	2974.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	3130.0	0.0	3130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.1
10°-20°	130.9	4.2
20°-30°	266.3	8.5
30°-40°	462.2	14.8
40°-50°	653.0	20.9
50°-60°	740.6	23.7
60°-70°	614.2	19.6
70°-80°	222.5	7.1
80°-90°	7.2	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°	3130.0	100.0
0°-180°	3130.0	100.0

Coefficient of Utilization



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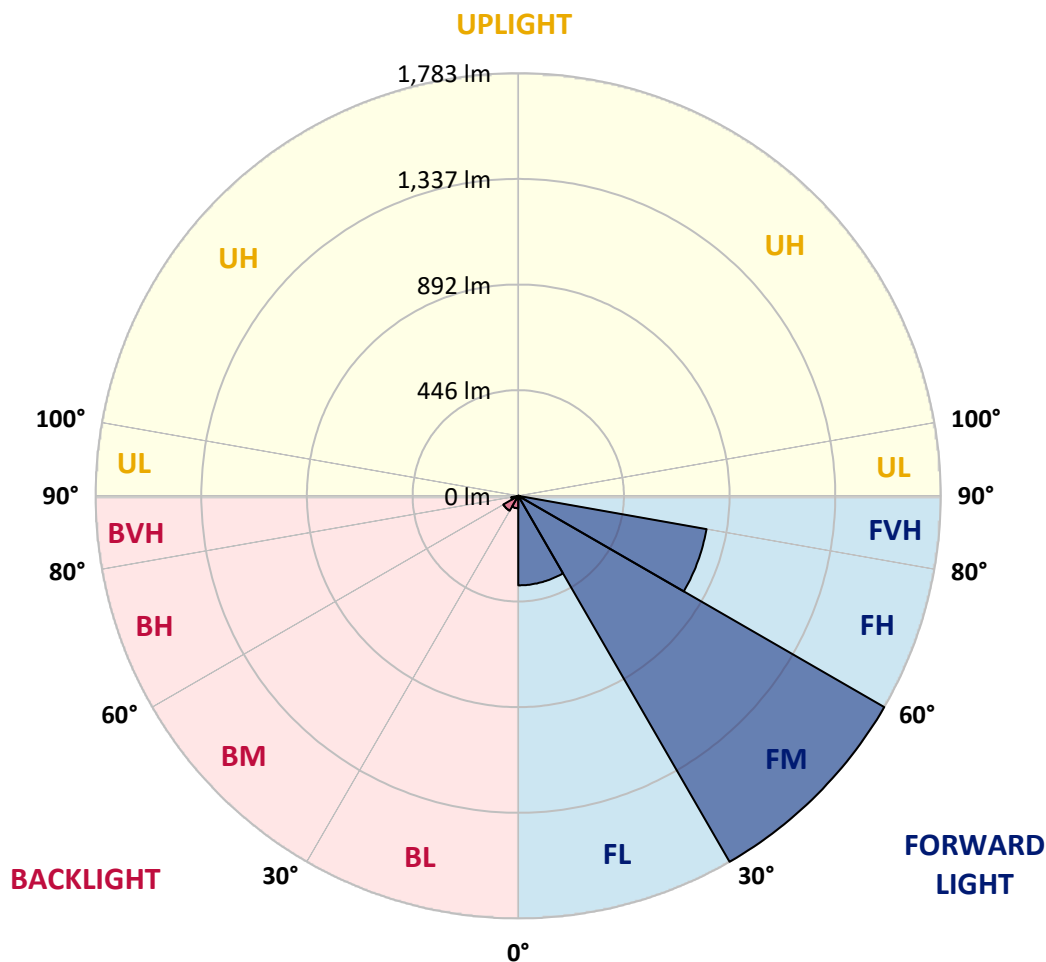
CATALOG NUMBER: GLEON-SA1A-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.8	12.1			
FM	(30°-60°)	1783.1	57.0			
FH	(60°-80°)	806.7	25.8			G1/1800
FVH	(80°-90°)	7.0	0.2			G0/10
BL	(0°-30°)	52.4	1.7	B0/110		
BM	(30°-60°)	72.7	2.3	B0/220		
BH	(60°-80°)	30.0	1.0	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: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5
2.5°	396.4	387.4	389.5	383.7	373.3	351.9	333.7	316.4	296.2	295.5	279.0
5°	534.5	526.9	526.0	514.3	495.4	459.0	423.6	383.3	338.3	335.0	299.8
7.5°	659.8	653.8	651.6	637.7	602.5	567.1	521.0	461.8	391.4	385.4	327.9
10°	756.1	753.2	753.8	743.9	713.7	680.8	620.3	544.7	451.6	442.3	361.7
12.5°	829.0	829.7	834.7	828.6	811.8	787.4	722.8	633.2	518.3	505.5	400.2
15°	882.7	886.1	895.2	902.7	901.5	880.3	821.1	723.0	589.0	574.9	443.1
17.5°	917.4	921.2	934.4	951.1	966.5	961.5	916.0	809.7	660.6	644.3	489.1
20°	947.8	952.3	966.5	988.5	1017.2	1023.4	993.5	893.8	732.1	712.2	536.5
22.5°	1013.8	1013.6	1022.3	1035.2	1062.5	1078.4	1059.5	971.8	802.7	782.0	584.9
25°	1133.1	1128.6	1125.6	1115.4	1121.4	1131.3	1120.8	1044.8	873.8	852.8	634.0
27.5°	1274.9	1277.7	1253.2	1225.9	1204.8	1194.7	1177.4	1112.4	942.1	919.0	682.0
30°	1424.5	1425.4	1396.6	1361.7	1315.2	1276.7	1246.8	1177.0	1012.3	987.2	728.7
32.5°	1559.5	1554.1	1525.6	1478.2	1419.5	1376.1	1314.0	1249.1	1086.6	1062.3	780.5
35°	1666.5	1660.2	1625.5	1582.3	1521.4	1477.7	1403.0	1321.1	1164.8	1141.1	832.5
37.5°	1744.6	1737.2	1701.6	1657.1	1604.6	1579.2	1506.3	1399.4	1250.1	1224.6	887.2
40°	1771.8	1765.3	1743.0	1710.5	1668.2	1662.5	1615.9	1489.5	1342.9	1315.8	949.2
42.5°	1755.6	1749.3	1741.3	1730.4	1712.8	1718.3	1719.3	1592.3	1446.1	1419.3	1017.6
45°	1691.4	1685.8	1694.0	1710.1	1731.9	1759.0	1813.6	1702.7	1561.3	1532.7	1096.8
47.5°	1596.9	1592.8	1615.6	1655.6	1719.4	1794.3	1899.9	1818.7	1690.6	1664.1	1195.5
50°	1462.5	1461.8	1507.4	1580.5	1678.5	1811.3	1989.0	1950.6	1870.3	1842.4	1332.8
52.5°	1253.2	1254.6	1344.2	1461.2	1606.8	1799.8	2046.4	2120.1	2079.3	2050.3	1451.7
55°	1054.0	1062.2	1125.7	1294.4	1496.8	1757.0	2066.1	2199.3	2194.6	2167.2	1517.8
57.5°	858.8	873.8	934.9	1092.5	1336.2	1658.4	2055.3	2233.6	2280.5	2259.5	1605.0
60°	647.3	654.2	724.7	872.0	1130.1	1478.4	1976.7	2252.2	2397.9	2383.3	1731.6
62.5°	411.8	429.0	491.5	633.6	879.9	1228.6	1844.2	2251.9	2544.7	2552.7	1894.9
65°	217.0	237.0	270.2	392.6	604.7	949.5	1644.9	2230.8	2725.0	2736.1	2022.6
67.5°	117.0	122.7	140.3	203.8	350.7	643.2	1352.1	2126.6	2829.3	2844.0	2040.5
70°	85.6	88.7	95.3	112.7	176.5	373.6	986.6	1890.3	2694.8	2689.3	1812.9
72.5°	65.7	70.6	75.6	82.6	101.5	199.4	614.3	1480.2	2150.2	2114.0	1355.1
75°	51.8	52.7	59.7	66.0	76.1	113.6	272.8	862.1	1312.4	1226.6	702.7
77.5°	41.4	42.0	46.1	51.6	61.2	74.6	84.5	339.2	419.0	373.9	152.5
80°	24.5	25.9	34.3	39.8	50.7	47.0	30.9	73.6	65.4	59.2	25.6
82.5°	13.7	14.8	19.3	31.4	35.4	22.5	15.4	19.9	15.4	14.9	7.3
85°	0.0	0.7	12.5	19.5	14.4	4.9	6.4	6.6	4.5	4.3	2.9
87.5°	0.0	0.0	3.8	3.7	0.5	0.8	1.5	2.2	1.8	1.8	1.5
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-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5
2.5°	270.7	263.3	249.3	235.6	224.1	214.6	206.1	202.7	200.0	199.5	197.4
5°	282.8	267.8	241.1	219.2	204.5	194.1	185.1	179.7	175.4	173.8	172.3
7.5°	301.0	278.4	240.0	214.8	197.2	179.7	163.2	145.4	134.3	130.0	127.5
10°	323.3	292.4	244.1	213.5	182.8	145.8	118.5	95.9	86.7	83.7	82.8
12.5°	349.2	309.8	251.3	205.9	152.1	103.5	81.7	74.1	72.0	71.0	71.0
15°	378.9	328.9	256.3	183.6	112.5	78.3	70.8	67.2	65.0	63.8	63.9
17.5°	409.4	347.5	253.9	151.4	83.0	69.7	64.0	60.2	57.2	56.0	55.7
20°	440.1	364.8	240.1	112.7	70.2	63.2	56.9	52.7	49.6	48.4	48.1
22.5°	471.9	379.5	216.0	82.7	63.1	56.1	49.9	45.7	42.8	41.7	41.1
25°	502.9	391.4	182.3	66.9	56.4	49.4	43.5	39.5	36.9	35.8	35.7
27.5°	531.9	399.0	143.2	59.1	50.5	43.3	38.0	34.4	32.2	31.4	31.3
30°	557.9	399.6	105.9	53.3	45.3	38.1	33.2	30.0	28.1	27.3	27.0
32.5°	584.2	393.9	77.1	48.1	40.5	33.6	28.8	26.3	25.0	24.3	24.3
35°	609.1	380.6	60.1	43.6	35.8	29.2	25.4	23.6	22.8	22.1	22.1
37.5°	633.3	361.5	51.0	39.6	31.4	25.5	22.4	21.3	20.6	19.9	19.9
40°	658.0	337.5	46.4	35.9	27.8	22.6	19.9	18.9	18.2	17.7	17.6
42.5°	688.3	309.8	43.3	32.5	24.7	20.0	17.6	16.5	15.9	15.4	15.1
45°	723.4	285.9	40.9	29.1	22.1	17.8	15.2	14.1	13.3	12.6	12.5
47.5°	774.1	268.7	37.6	25.4	19.6	15.5	13.2	11.9	10.7	10.0	9.9
50°	838.6	254.4	33.3	22.1	17.1	13.2	11.0	9.5	8.4	7.7	7.7
52.5°	870.7	235.8	29.5	19.2	14.4	11.1	8.9	7.1	6.6	5.9	5.9
55°	883.6	221.5	25.6	16.3	11.9	9.2	7.0	5.5	5.1	4.7	4.5
57.5°	919.8	217.4	22.4	13.9	9.9	7.3	5.3	4.1	3.8	3.3	3.3
60°	978.1	219.4	19.3	11.8	8.0	5.6	4.0	3.2	2.9	2.3	2.3
62.5°	1041.1	216.8	16.3	10.1	6.2	4.1	2.7	2.3	2.3	1.4	1.2
65°	1053.1	193.1	14.0	8.4	4.8	3.0	1.8	1.5	2.1	0.3	0.0
67.5°	977.4	149.8	12.1	6.4	3.6	2.3	1.4	0.7	1.8	0.0	0.0
70°	781.6	95.2	9.7	4.7	2.7	1.9	1.1	0.3	1.4	0.0	0.0
72.5°	552.7	55.3	7.7	3.3	2.3	1.5	0.8	0.0	0.8	0.0	0.0
75°	279.5	29.5	4.8	2.5	1.8	1.1	0.5	0.0	0.1	0.0	0.0
77.5°	60.5	13.7	3.0	1.8	1.2	0.7	0.3	0.0	0.0	0.0	0.0
80°	13.2	6.0	1.9	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	4.8	3.2	1.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	1.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.5	0.1	0.1	0.0	0.0	0.0	0.0	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
 R_f: 81.5
 R_g: 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

$R_f = 81.5$
 $R_g = 99.2$
 $CIE\ R_a = 81.0$
 $R_g = 7.1$



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)