

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: P319541

Luminaire Tested: **GLEON-SA7D-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319541
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: GLEON-SA7D-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42722 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

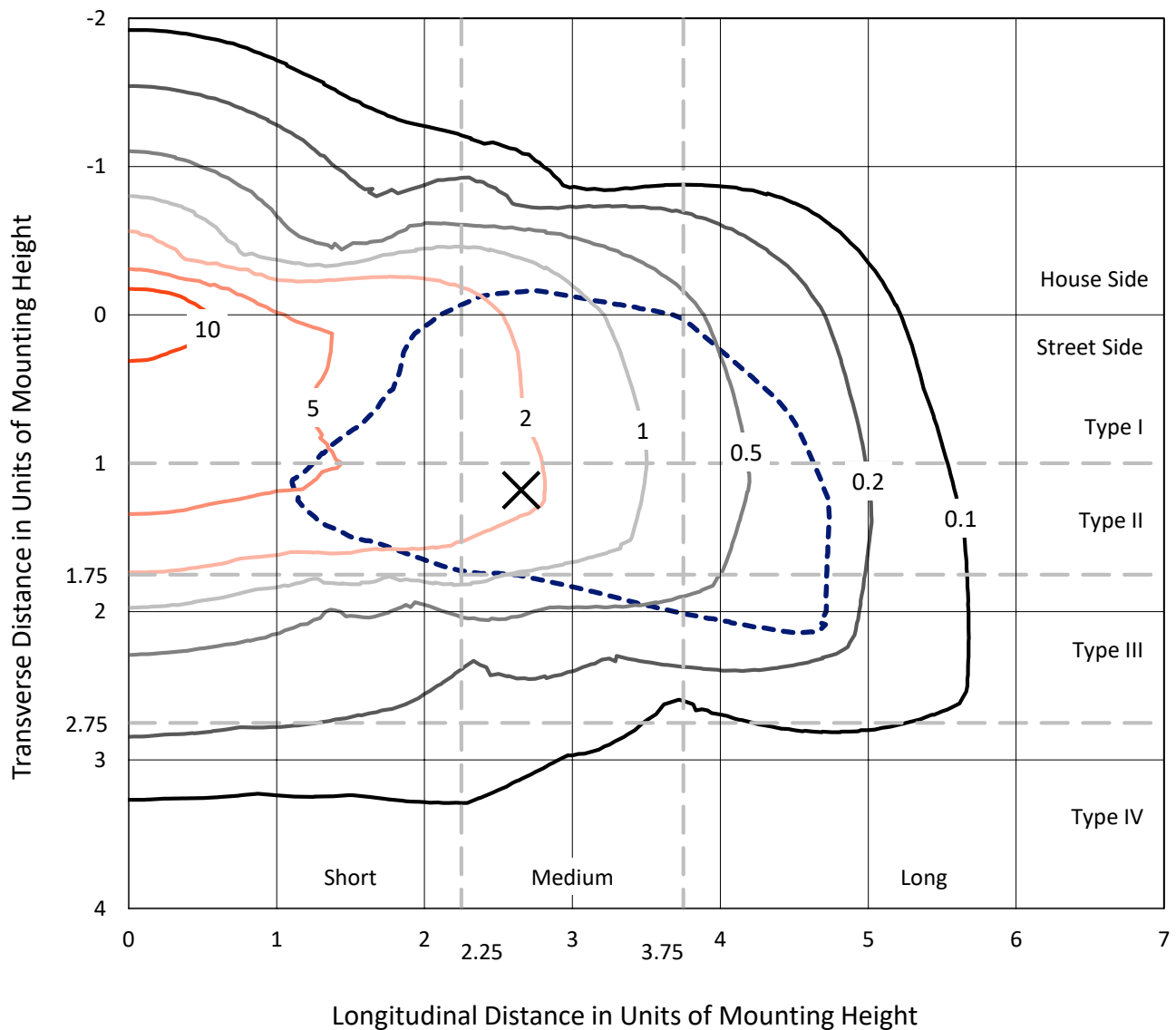
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

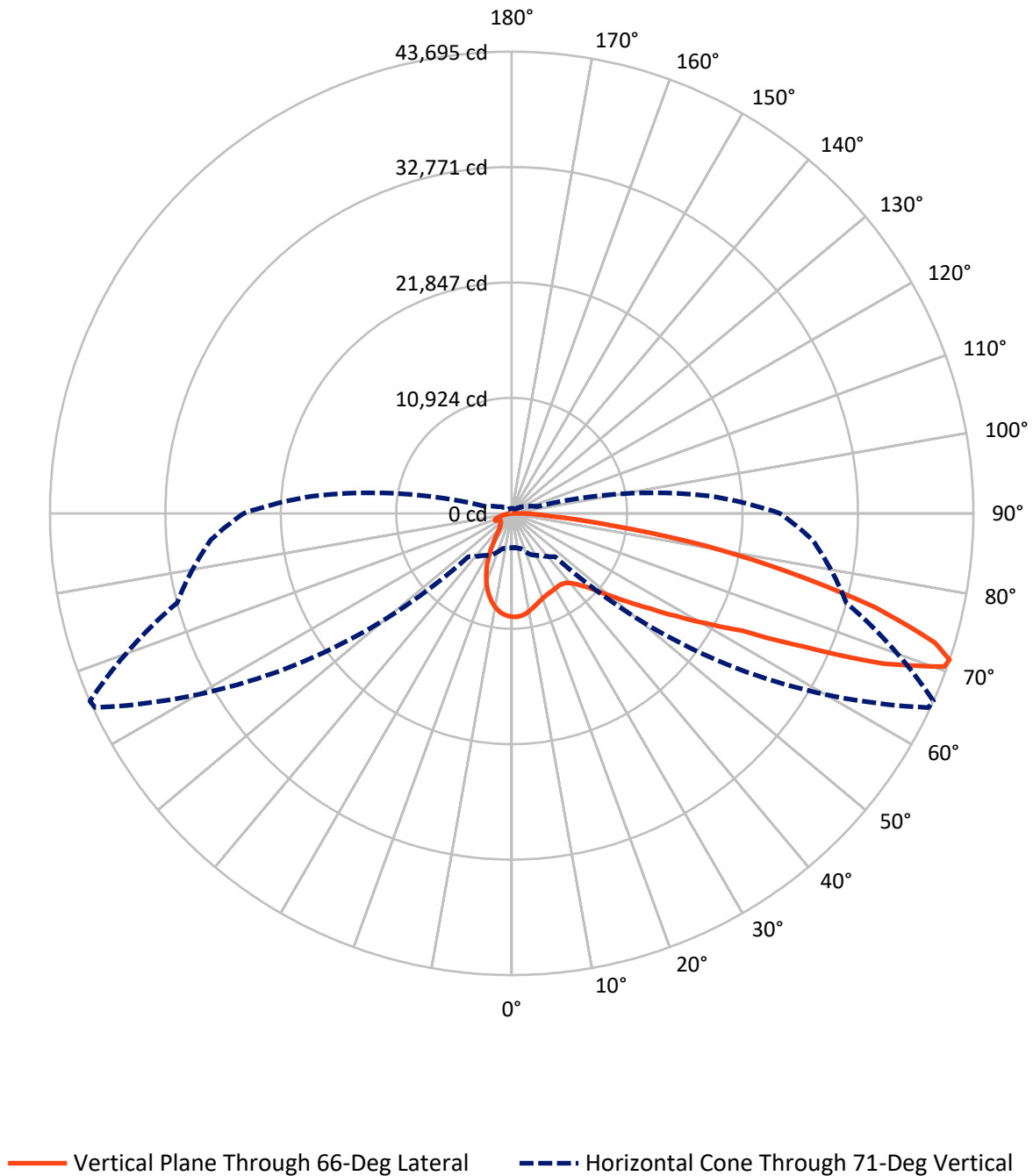
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA7D-830-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7917.6	0.0	7917.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	34804.4	0.0	34804.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	42722.0	0.0	42722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.5	2.0
10°-20°	2066.2	4.8
20°-30°	2775.4	6.5
30°-40°	3651.0	8.5
40°-50°	5311.2	12.4
50°-60°	8296.7	19.4
60°-70°	10393.0	24.3
70°-80°	7927.5	18.6
80°-90°	1439.6	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°	42722.0	100.0
0°-180°	42722.0	100.0

Coefficient of Utilization



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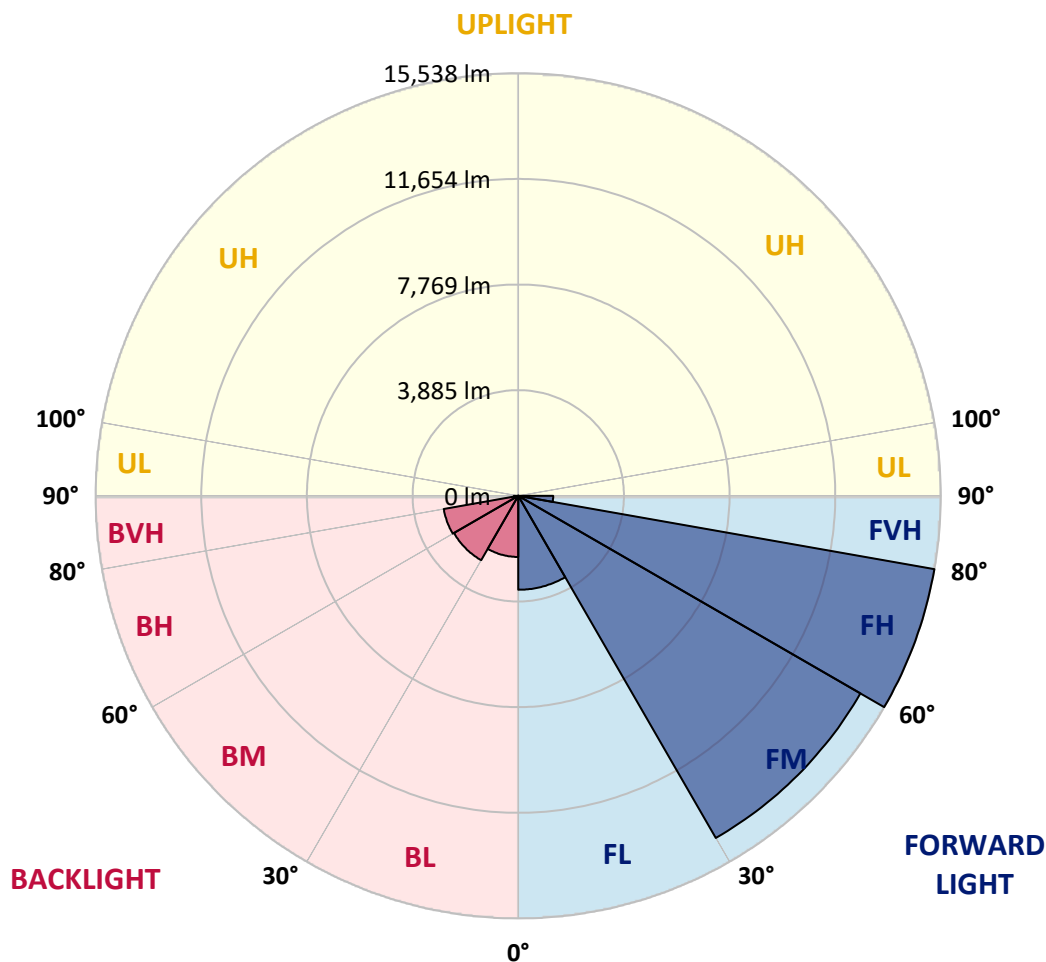
CATALOG NUMBER: GLEON-SA7D-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3454.7	8.1			
FM	(30°-60°)	14527.6	34.0			
FH	(60°-80°)	15538.4	36.4			G5
FVH	(80°-90°)	1283.7	3.0			G5
BL	(0°-30°)	2248.4	5.3	B3/2500		
BM	(30°-60°)	2731.3	6.4	B3/5000		
BH	(60°-80°)	2782.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	155.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8
2.5°	9605.4	9590.6	9634.9	9680.6	9698.3	9727.8	9772.0	9797.1	9795.6	9800.1	9785.3
5°	8968.1	8949.0	9037.5	9109.7	9248.4	9404.8	9595.0	9730.7	9733.7	9810.4	9831.0
7.5°	8364.9	8351.6	8453.4	8569.9	8730.7	8969.6	9277.9	9570.0	9587.7	9795.6	9867.9
10°	7881.1	7878.1	7976.9	8103.8	8291.1	8558.1	8912.1	9339.9	9366.4	9724.8	9873.8
12.5°	7503.4	7509.3	7594.9	7739.5	7937.1	8215.9	8599.4	9081.7	9124.5	9612.7	9839.9
15°	7224.7	7248.3	7317.6	7463.6	7658.3	7941.5	8335.4	8842.8	8907.7	9487.4	9820.7
17.5°	7065.4	7091.9	7140.6	7261.5	7444.4	7717.3	8090.5	8646.6	8705.6	9391.5	9822.2
20°	7018.2	7040.3	7068.3	7142.1	7296.9	7544.7	7897.3	8469.6	8533.0	9314.8	9836.9
22.5°	7111.1	7127.3	7130.3	7124.4	7218.8	7420.8	7757.2	8339.8	8407.6	9264.6	9847.3
25°	7310.2	7332.3	7316.1	7261.5	7230.6	7354.5	7684.9	8254.2	8322.1	9227.7	9826.6
27.5°	7609.6	7612.6	7599.3	7528.5	7382.5	7361.8	7662.7	8204.1	8269.0	9185.0	9783.8
30°	8016.8	8035.9	8012.3	7916.5	7677.5	7479.8	7689.3	8155.4	8214.4	9130.4	9714.5
32.5°	8493.2	8540.4	8538.9	8438.6	8096.4	7743.9	7798.5	8125.9	8171.6	9072.9	9630.4
35°	8987.3	9052.2	9173.2	9130.4	8707.1	8161.3	8007.9	8173.1	8204.1	9065.5	9571.4
37.5°	9500.6	9565.5	9814.8	9929.9	9434.3	8758.7	8338.3	8339.8	8354.5	9155.5	9567.0
40°	10037.5	10106.9	10481.5	10780.9	10376.8	9515.4	8870.8	8687.9	8671.7	9376.7	9654.0
42.5°	10789.8	10851.8	11301.6	11683.7	11422.6	10484.5	9606.8	9224.8	9190.9	9810.4	9932.8
45°	11741.2	11794.3	12272.2	12680.8	12546.6	11590.7	10531.7	9963.8	9957.9	10533.1	10497.7
47.5°	12872.5	12913.8	13343.1	13738.4	13787.0	12863.7	11694.0	11104.0	11008.1	11524.4	11372.4
50°	14051.1	14096.8	14388.9	14813.7	15175.0	14567.3	13189.7	12500.8	12372.5	12832.7	12611.5
52.5°	14831.4	14891.8	15145.5	15683.9	16735.6	16434.7	14958.2	14194.2	13999.5	14418.4	14248.7
55°	14483.3	14619.0	15006.9	15869.8	17983.5	19287.4	17139.8	16169.2	15949.4	16297.5	16197.2
57.5°	12900.6	13086.4	13615.9	14947.9	18159.0	21800.9	20437.9	18495.3	18340.4	18240.1	18285.9
60°	10008.0	10186.5	10842.9	12579.0	16936.2	23635.8	25401.4	21362.8	21138.6	20190.1	20231.4
62.5°	7083.1	6993.1	7443.0	8713.0	13762.0	23851.1	31049.3	25197.8	24460.3	22249.3	22067.8
65°	5401.5	5380.9	5583.0	5987.1	8335.4	21274.3	34413.8	31643.7	30491.7	24671.2	24243.5
67.5°	4438.3	4401.5	4600.6	5189.1	5367.6	13725.1	34487.5	39122.1	37990.7	27686.2	26759.9
70°	3649.2	3607.9	3793.8	4553.4	4960.5	6960.6	29025.5	43501.4	43440.9	31503.6	28659.7
71°	3271.6	3242.1	3464.8	4308.5	4873.5	5801.3	25060.7	43513.2	43694.6	32795.7	28547.6
72.5°	2663.9	2674.2	2910.2	3835.1	4808.6	5122.8	18418.6	41485.0	41868.6	34027.3	27528.4
75°	1770.0	1778.9	2088.6	2950.0	4662.6	5012.1	10123.1	34810.6	35515.6	33289.8	25119.7
77.5°	1188.9	1185.9	1396.8	2023.7	4062.2	5012.1	5935.5	26035.6	26810.0	26488.5	19365.6
80°	818.6	812.7	961.7	1396.8	3075.4	5072.6	4588.8	18246.0	18480.6	14304.8	7870.7
82.5°	501.5	505.9	628.4	986.8	2093.1	4565.2	4332.1	9949.0	9693.9	4012.1	1966.2
85°	287.6	286.2	401.2	668.2	1343.7	3852.8	4224.5	4282.0	3928.0	1208.0	711.0
87.5°	103.3	110.6	215.4	370.2	770.0	2683.1	3584.3	2227.3	2007.5	545.8	321.6
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-SA7D-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8	9786.8
2.5°	9775.0	9783.8	9773.5	9714.5	9664.4	9583.2	9537.5	9474.1	9454.9	9446.1	9469.7
5°	9811.9	9814.8	9727.8	9572.9	9398.9	9193.8	9046.3	8864.9	8779.3	8742.5	8766.1
7.5°	9845.8	9832.5	9642.2	9345.8	9024.2	8667.2	8350.1	8059.5	7889.9	7820.6	7826.5
10°	9850.2	9794.2	9488.8	9030.1	8531.5	8007.9	7521.1	7072.7	6789.5	6605.2	6661.2
12.5°	9804.5	9710.1	9263.1	8621.5	7929.7	7215.8	6558.0	5885.3	5481.2	5293.9	5299.8
15°	9769.1	9598.0	8985.8	8140.7	7211.4	6265.9	5367.6	4577.0	4146.3	3954.5	3864.6
17.5°	9739.6	9477.0	8664.3	7599.3	6363.3	5164.1	4084.3	3379.3	3143.3	3087.2	3063.6
20°	9698.3	9348.7	8305.9	6972.4	5397.1	3930.9	2982.5	2634.4	2635.9	2700.8	2709.6
22.5°	9640.8	9202.7	7923.8	6268.9	4360.2	2863.0	2337.9	2237.6	2339.4	2463.3	2485.4
25°	9555.2	9030.1	7499.0	5491.5	3324.7	2200.7	1997.2	1992.8	2116.7	2246.5	2265.6
27.5°	9434.3	8804.4	7027.0	4656.7	2450.0	1870.3	1789.2	1820.2	1911.6	2006.0	2013.4
30°	9272.0	8541.9	6506.3	3776.1	1920.5	1665.3	1656.5	1684.5	1740.5	1806.9	1812.8
32.5°	9093.5	8274.9	5950.2	2923.5	1644.7	1554.7	1563.5	1576.8	1603.4	1629.9	1635.8
35°	8931.3	8002.0	5380.9	2221.4	1513.4	1482.4	1476.5	1473.5	1476.5	1467.6	1469.1
37.5°	8826.5	7776.3	4787.9	1768.6	1438.1	1419.0	1401.3	1379.1	1354.1	1339.3	1342.3
40°	8788.2	7608.2	4187.6	1528.1	1376.2	1362.9	1329.0	1281.8	1252.3	1243.4	1243.4
42.5°	8891.4	7521.1	3607.9	1407.2	1324.6	1302.4	1246.4	1191.8	1169.7	1168.2	1166.7
45°	9207.1	7556.5	3056.2	1340.8	1277.4	1234.6	1160.8	1115.1	1100.4	1103.3	1101.8
47.5°	9773.5	7779.3	2584.2	1296.5	1230.2	1174.1	1091.5	1054.6	1036.9	1036.9	1038.4
50°	10736.7	8300.0	2208.1	1259.7	1190.3	1118.1	1041.4	995.6	972.0	970.6	970.6
52.5°	12139.4	9232.2	1973.6	1228.7	1146.1	1067.9	991.2	933.7	905.7	899.8	896.8
55°	13897.7	10568.5	1908.7	1208.0	1087.1	1013.3	930.7	873.2	842.2	829.0	827.5
57.5°	15863.9	12194.0	2037.0	1183.0	1026.6	948.4	864.4	809.8	777.3	761.1	759.6
60°	17853.7	13968.5	2560.6	1147.6	976.5	877.6	796.5	746.4	713.9	696.2	693.3
62.5°	19846.4	15838.8	3630.0	1144.6	941.1	809.8	727.2	684.4	653.4	634.3	629.8
65°	22094.4	17886.1	4845.5	1222.8	929.3	747.8	656.4	622.5	595.9	578.2	576.7
67.5°	24675.7	20197.5	4728.9	1383.6	969.1	691.8	590.0	563.5	544.3	529.5	528.1
70°	25886.7	19836.1	2939.7	1497.1	1025.1	637.2	526.6	507.4	492.7	482.3	477.9
71°	25379.3	18834.6	2464.8	1483.9	1019.2	613.6	501.5	486.8	472.0	463.2	458.7
72.5°	23995.7	17176.7	2056.2	1380.6	952.9	570.8	469.1	454.3	441.0	430.7	427.8
75°	21532.4	15340.2	1646.1	1103.3	759.6	482.3	411.5	395.3	385.0	379.1	373.2
77.5°	15828.5	10947.6	1272.9	871.7	559.0	393.8	351.1	339.3	328.9	320.1	315.7
80°	6063.8	4240.7	857.0	650.5	410.1	311.2	283.2	277.3	267.0	261.1	261.1
82.5°	1632.9	1267.0	457.3	393.8	274.4	227.2	216.8	213.9	205.0	193.2	194.7
85°	660.8	559.0	256.7	216.8	168.2	134.2	146.0	147.5	137.2	122.4	123.9
87.5°	290.6	237.5	143.1	95.9	73.8	51.6	66.4	66.4	60.5	50.2	45.7
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)