

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: P323364

Luminaire Tested: **GLEON-SA0B-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37230 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

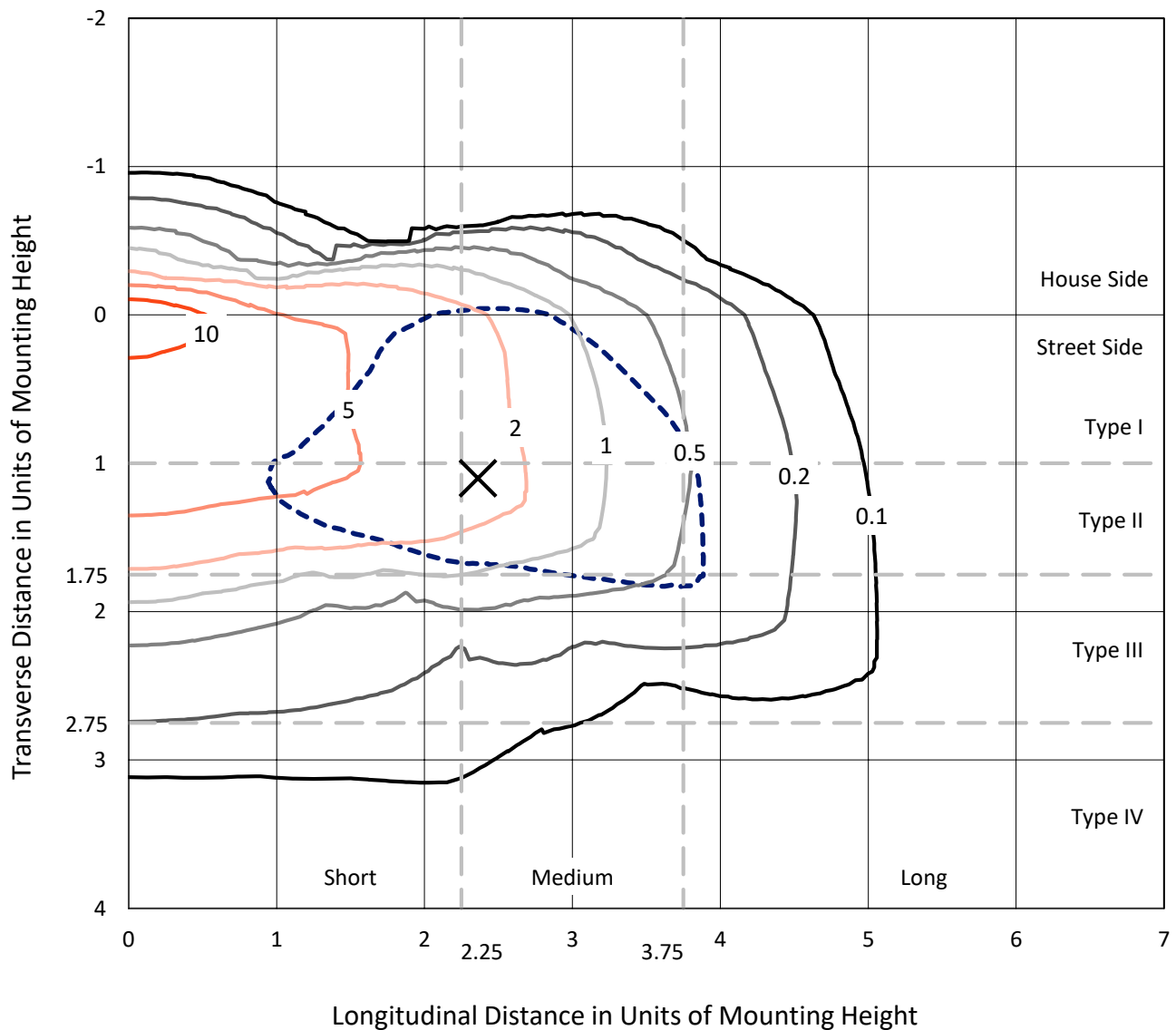
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

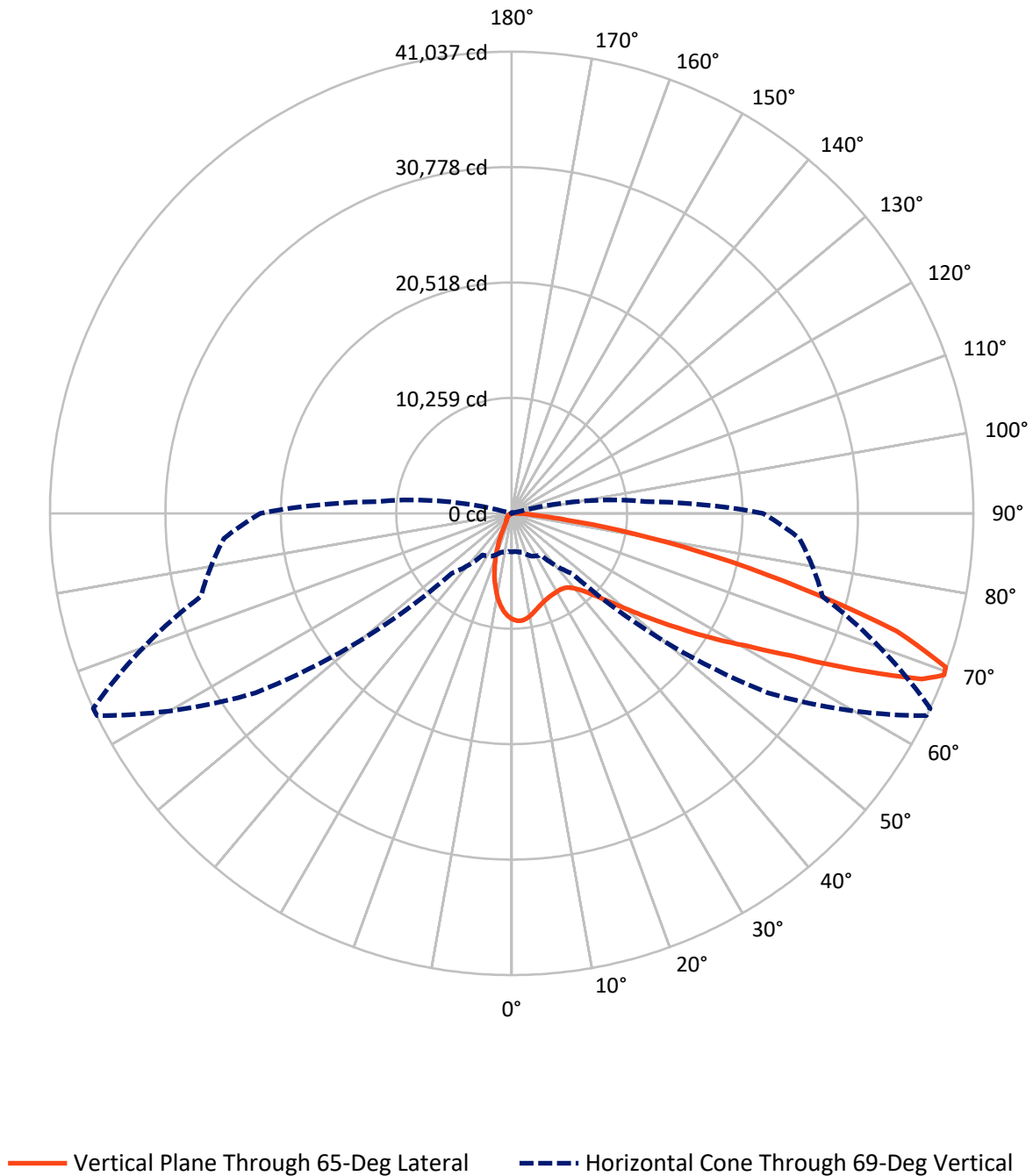
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4388.5	0.0	4388.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	32841.5	0.0	32841.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	37230.0	0.0	37230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.7	2.1
10°-20°	1722.1	4.6
20°-30°	2385.2	6.4
30°-40°	3325.8	8.9
40°-50°	5169.4	13.9
50°-60°	8298.8	22.3
60°-70°	9387.3	25.2
70°-80°	5513.3	14.8
80°-90°	641.3	1.7
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°	37230.0	100.0
0°-180°	37230.0	100.0

Coefficient of Utilization



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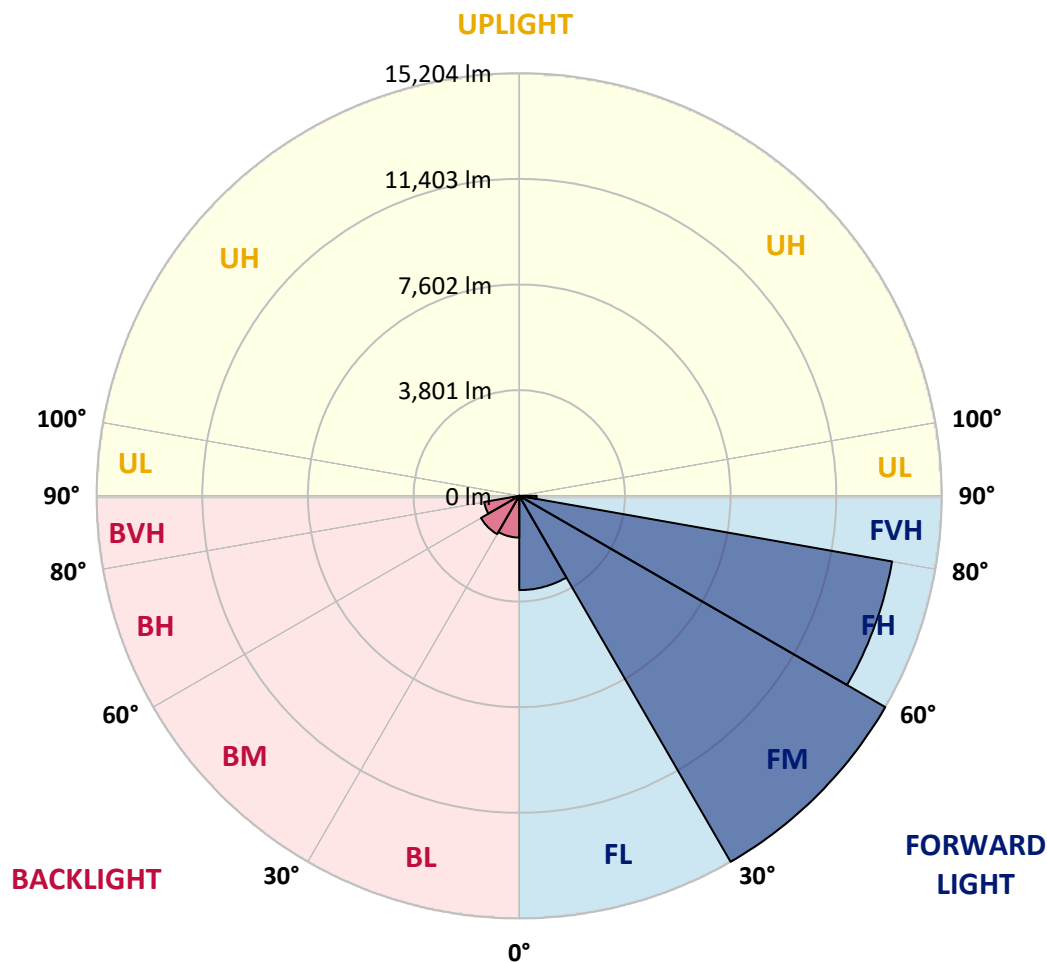
CATALOG NUMBER: GLEON-SA0B-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3392.5	9.1			
FM	(30°-60°)	15203.7	40.8			
FH	(60°-80°)	13618.4	36.6			G5
FVH	(80°-90°)	626.9	1.7			G4/750
BL	(0°-30°)	1501.6	4.0	B3/2500		
BM	(30°-60°)	1590.3	4.3	B2/2500		
BH	(60°-80°)	1282.2	3.4	B3/2500		G3/2500
BVH	(80°-90°)	14.4	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1
2.5°	9491.6	9468.0	9486.9	9527.8	9548.3	9548.3	9564.0	9545.1	9551.4	9505.8	9439.6
5°	8897.7	8861.4	8913.4	9028.4	9170.2	9291.5	9471.1	9565.6	9575.1	9576.7	9499.5
7.5°	8258.1	8225.0	8302.2	8437.7	8620.4	8845.7	9159.2	9433.3	9449.0	9597.1	9540.4
10°	7738.2	7714.6	7804.4	7949.3	8163.5	8415.6	8800.0	9181.2	9226.9	9554.6	9534.1
12.5°	7325.5	7306.5	7391.6	7558.6	7777.6	8056.4	8458.1	8900.8	8962.3	9458.5	9502.6
15°	7024.6	7021.4	7092.3	7253.0	7495.6	7755.5	8166.7	8640.9	8711.8	9354.5	9497.9
17.5°	6867.0	6871.7	6923.7	7060.8	7268.7	7527.1	7920.9	8421.9	8499.1	9261.6	9521.5
20°	6851.3	6856.0	6884.3	6961.5	7130.1	7358.5	7720.9	8237.6	8317.9	9192.3	9559.3
22.5°	6989.9	6986.7	6994.6	6986.7	7081.3	7254.6	7588.5	8095.8	8188.8	9146.6	9589.3
25°	7256.1	7251.4	7248.3	7190.0	7127.0	7219.9	7533.4	8015.5	8103.7	9113.5	9606.6
27.5°	7626.3	7623.2	7618.5	7522.4	7333.3	7275.0	7539.7	7985.5	8059.6	9086.7	9603.4
30°	8113.1	8135.2	8128.9	7995.0	7700.4	7443.6	7605.9	7969.8	8034.4	9034.7	9570.3
32.5°	8685.0	8729.1	8763.8	8620.4	8251.8	7777.6	7758.7	7987.1	8034.4	8995.3	9510.5
35°	9278.9	9335.6	9463.2	9412.8	8927.6	8280.1	8021.8	8091.1	8130.5	9017.4	9482.1
37.5°	9863.4	9931.1	10208.4	10354.9	9813.0	8944.9	8431.4	8347.9	8368.3	9151.3	9513.6
40°	10542.3	10644.7	11065.4	11301.7	10870.0	9835.0	9044.2	8789.0	8796.8	9445.9	9660.1
42.5°	11434.0	11539.6	11994.8	12365.0	12061.0	10959.8	9876.0	9463.2	9455.3	9997.3	10005.1
45°	12521.0	12631.3	13102.3	13513.5	13376.4	12292.6	10940.9	10447.8	10438.4	10866.9	10658.9
47.5°	13752.9	13861.6	14282.3	14706.0	14854.1	13849.0	12297.3	11791.6	11769.6	12075.2	11668.7
50°	14810.0	14880.9	15268.4	15838.7	16506.7	15761.5	13984.5	13497.7	13474.1	13680.5	13151.2
52.5°	15194.4	15235.4	15629.2	16427.9	18094.7	18351.4	16201.1	15574.1	15556.7	15646.5	15125.1
55°	14416.2	14490.2	14973.9	16158.5	18954.8	21278.5	18998.9	18145.1	18014.3	17820.5	17188.8
57.5°	12295.7	12413.9	12933.8	14509.1	18553.1	23600.6	23110.6	21053.2	20861.0	19676.3	18866.6
60°	9212.7	9357.7	9789.3	11489.1	16409.0	24427.6	27603.6	24293.7	23860.5	21154.0	20408.9
62.5°	6321.9	6394.4	6687.4	7794.9	12084.6	23072.8	31362.4	28633.9	27843.0	22760.9	22077.2
65°	4828.5	4853.7	4973.4	5354.7	7196.3	18742.1	32857.4	34360.3	33404.1	24682.8	23808.5
67.5°	3891.2	3870.7	4036.1	4581.2	4819.0	11434.0	31113.5	39778.0	39330.6	27252.3	25550.9
69°	3431.1	3402.8	3571.4	4204.7	4526.0	7558.6	27814.7	41008.4	41036.7	28608.6	25670.6
70°	3087.7	3106.6	3273.6	3981.0	4426.8	5932.8	24663.9	40694.9	40918.6	29115.9	24952.2
72.5°	2062.2	2112.6	2448.1	3305.1	4256.6	4489.8	14891.9	34921.1	35781.3	27973.8	21407.6
75°	1162.6	1200.4	1599.0	2492.2	4010.9	4275.5	7865.8	25727.3	26559.1	23392.6	16508.3
77.5°	570.3	590.8	904.3	1608.4	3354.0	4073.9	4461.4	17475.5	18425.5	15268.4	9337.2
80°	241.0	252.1	452.1	992.5	2397.7	3888.0	3313.0	10755.0	10873.2	5981.7	2487.5
82.5°	92.9	96.1	190.6	619.1	1523.4	3031.0	2771.1	5099.5	4976.6	1126.4	567.1
85°	11.0	12.6	69.3	371.8	847.5	1559.6	2251.2	2197.6	2033.8	223.7	291.4
87.5°	0.0	0.0	4.7	113.4	252.1	731.0	1170.5	912.1	822.3	72.5	151.2
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: GLEON-SA0B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1	9408.1
2.5°	9384.5	9368.7	9283.6	9160.8	9044.2	8899.2	8760.6	8677.1	8611.0	8566.8	8618.8
5°	9409.7	9340.3	9082.0	8751.2	8426.6	8061.1	7720.9	7432.6	7319.2	7193.1	7249.8
7.5°	9401.8	9271.0	8806.3	8217.1	7621.6	7005.7	6422.8	5973.8	5740.6	5512.2	5570.5
10°	9362.4	9141.8	8437.7	7564.9	6673.3	5787.9	4960.8	4332.3	3981.0	3662.7	3708.4
12.5°	9275.8	8968.6	8002.9	6818.2	5625.6	4458.3	3489.4	2684.4	2252.8	2062.2	2085.8
15°	9223.8	8800.0	7542.9	6062.0	4507.1	3105.0	2133.0	1586.4	1389.5	1326.5	1334.3
17.5°	9198.6	8637.7	7067.1	5197.1	3363.4	1977.1	1378.4	1216.2	1173.6	1162.6	1165.8
20°	9173.4	8473.9	6577.2	4341.7	2317.4	1329.6	1132.7	1085.4	1069.7	1055.5	1058.6
22.5°	9130.8	8316.4	6051.0	3475.3	1562.8	1079.1	1020.8	975.2	942.1	924.7	927.9
25°	9078.8	8150.9	5513.8	2588.3	1140.6	962.5	907.4	842.8	803.4	771.9	773.5
27.5°	8995.3	7947.7	4959.3	1884.1	957.8	861.7	787.7	716.8	650.6	614.4	614.4
30°	8878.8	7717.7	4343.3	1348.5	858.6	762.5	672.7	584.5	513.6	480.5	477.3
32.5°	8749.6	7478.3	3721.0	1022.4	779.8	669.5	567.1	474.2	411.2	384.4	382.8
35°	8639.3	7219.9	3100.3	857.0	701.0	579.7	467.9	389.1	338.7	316.6	315.1
37.5°	8568.4	6961.5	2495.4	765.6	630.1	496.2	392.3	321.4	285.1	267.8	266.2
40°	8557.4	6769.3	1942.4	696.3	564.0	422.2	327.7	272.5	239.5	220.6	219.0
42.5°	8700.7	6659.1	1490.3	638.0	496.2	357.6	278.8	233.2	198.5	179.6	178.0
45°	9077.3	6693.7	1146.9	586.0	428.5	302.5	236.3	193.8	162.3	148.1	144.9
47.5°	9764.1	6933.2	912.1	534.0	363.9	256.8	201.6	160.7	133.9	119.7	118.2
50°	10986.6	7495.6	762.5	477.3	304.0	219.0	167.0	130.8	108.7	96.1	94.5
52.5°	12609.2	8497.5	680.6	422.2	252.1	185.9	137.1	104.0	85.1	75.6	74.0
55°	14398.8	9710.6	627.0	362.3	206.4	154.4	108.7	81.9	66.2	58.3	55.1
57.5°	16145.9	10761.3	576.6	304.0	171.7	126.0	86.6	64.6	52.0	44.1	42.5
60°	17751.2	11727.0	518.3	244.2	140.2	99.2	67.7	50.4	41.0	33.1	33.1
62.5°	19469.9	12473.7	438.0	190.6	115.0	75.6	55.1	45.7	33.1	28.4	26.8
65°	21291.1	13028.3	343.4	148.1	89.8	56.7	45.7	47.3	26.8	20.5	18.9
67.5°	22636.4	12918.0	253.6	116.6	69.3	44.1	44.1	50.4	23.6	15.8	14.2
69°	22340.3	12021.6	212.7	100.8	59.9	37.8	41.0	50.4	22.1	14.2	12.6
70°	21481.7	11029.1	187.5	89.8	53.6	34.7	39.4	48.8	20.5	14.2	12.6
72.5°	17889.9	8306.9	146.5	67.7	42.5	28.4	33.1	42.5	20.5	14.2	11.0
75°	13456.8	5316.9	111.9	48.8	31.5	22.1	25.2	31.5	20.5	12.6	11.0
77.5°	7322.3	1917.2	80.3	33.1	22.1	17.3	17.3	23.6	18.9	9.5	6.3
80°	1882.6	482.1	50.4	22.1	17.3	12.6	11.0	15.8	11.0	1.6	0.0
82.5°	464.7	108.7	26.8	15.8	12.6	4.7	4.7	7.9	4.7	0.0	0.0
85°	255.2	53.6	17.3	11.0	6.3	0.0	0.0	1.6	0.0	0.0	0.0
87.5°	130.8	15.8	4.7	3.2	1.6	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
 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 $\text{W}^\wedge/\text{nm}$	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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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)