

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: P322083

Luminaire Tested: **GLEON-SA9B-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28880 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

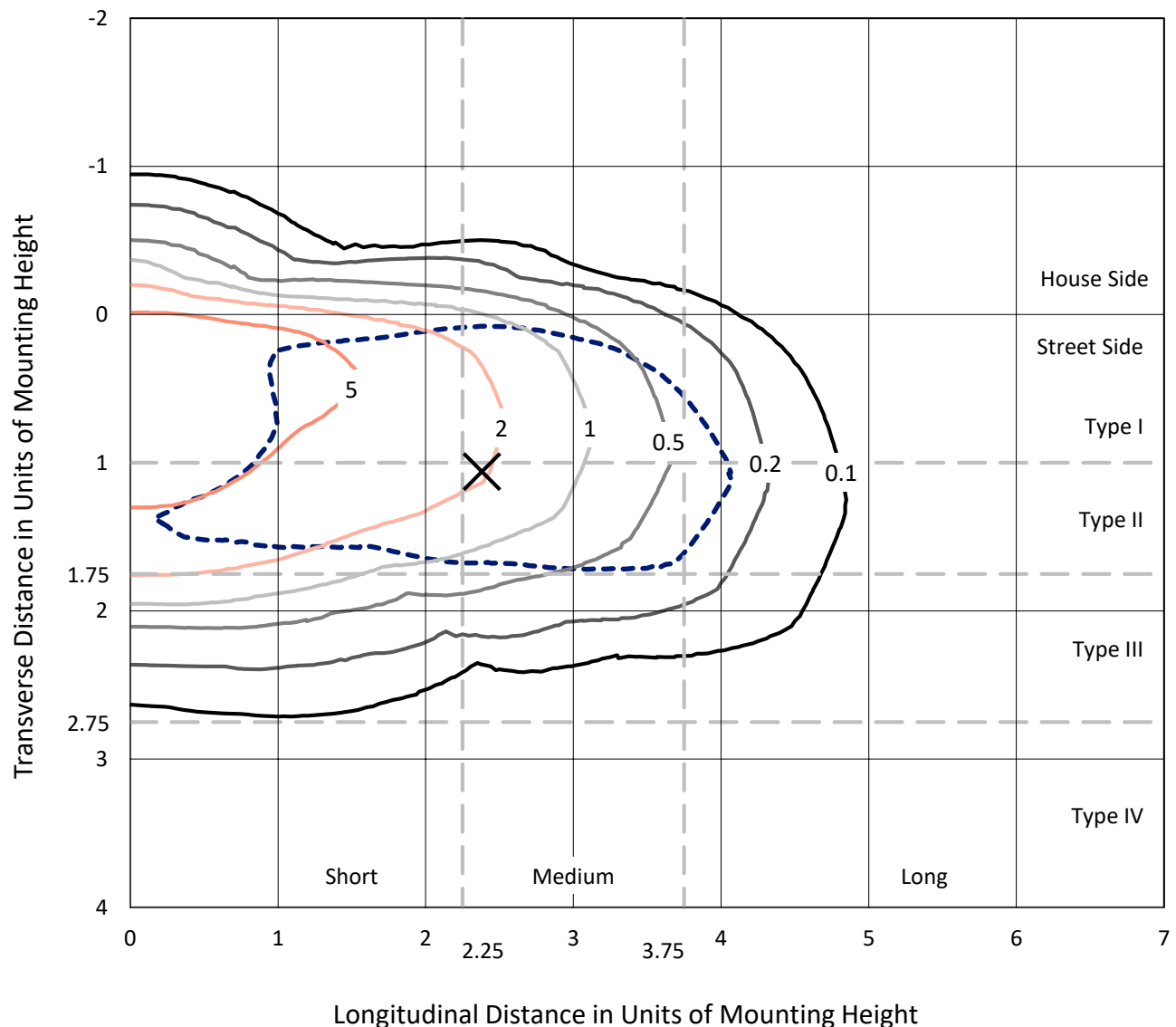
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

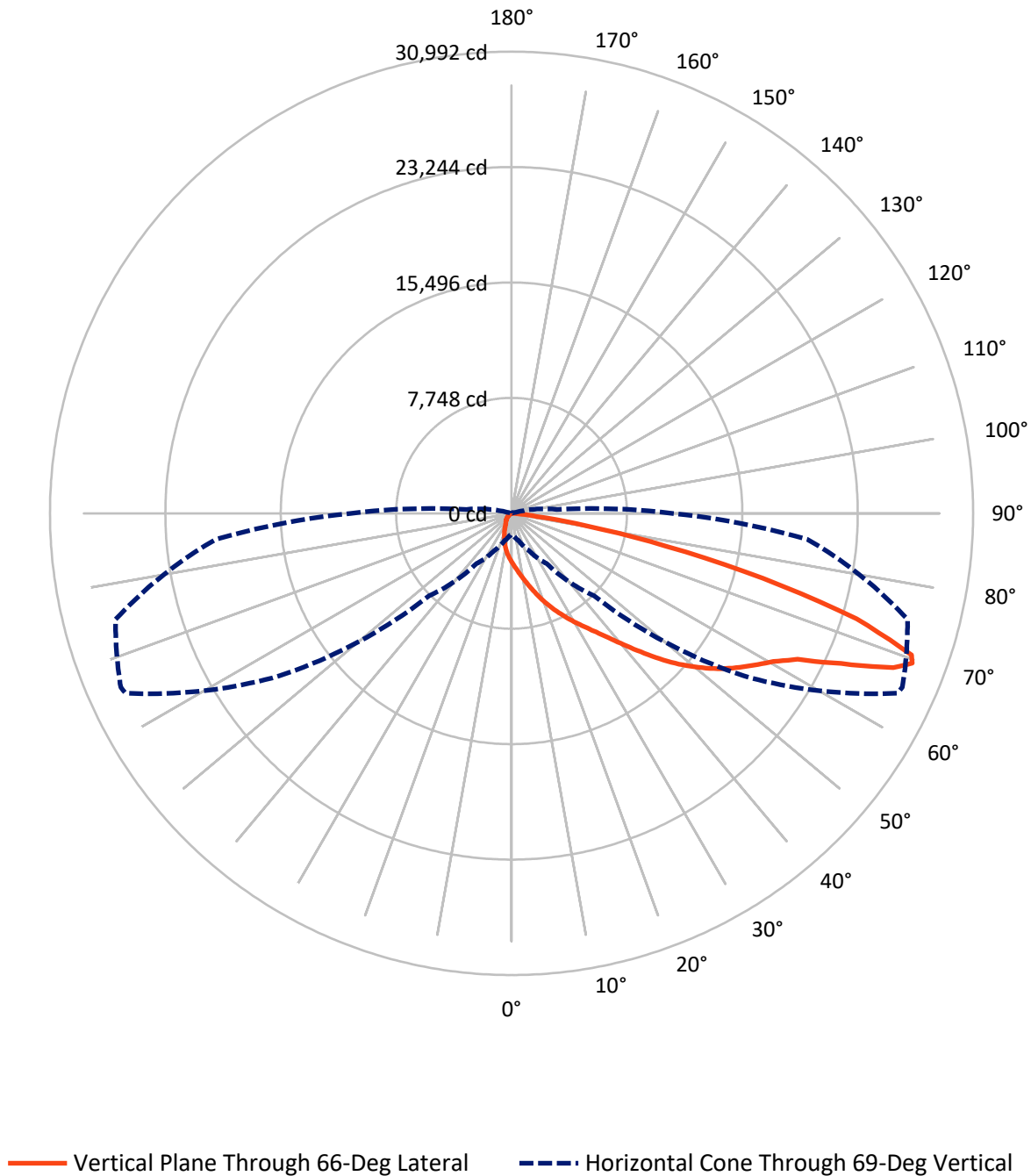
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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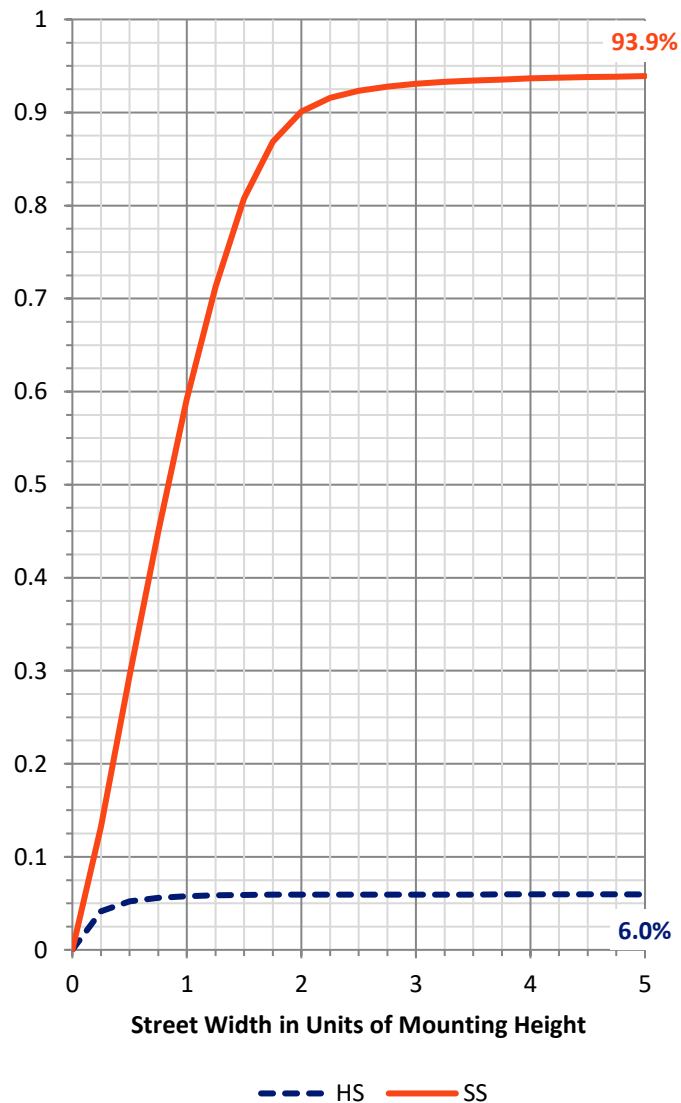
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1732.4	0.0	1732.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	27147.6	0.0	27147.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	28880.0	0.0	28880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	1.1
10°-20°	945.5	3.3
20°-30°	1646.5	5.7
30°-40°	2888.8	10.0
40°-50°	4835.4	16.7
50°-60°	7107.6	24.6
60°-70°	7297.7	25.3
70°-80°	3602.7	12.5
80°-90°	238.2	0.8
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°	28880.0	100.0
0°-180°	28880.0	100.0

Coefficient of Utilization



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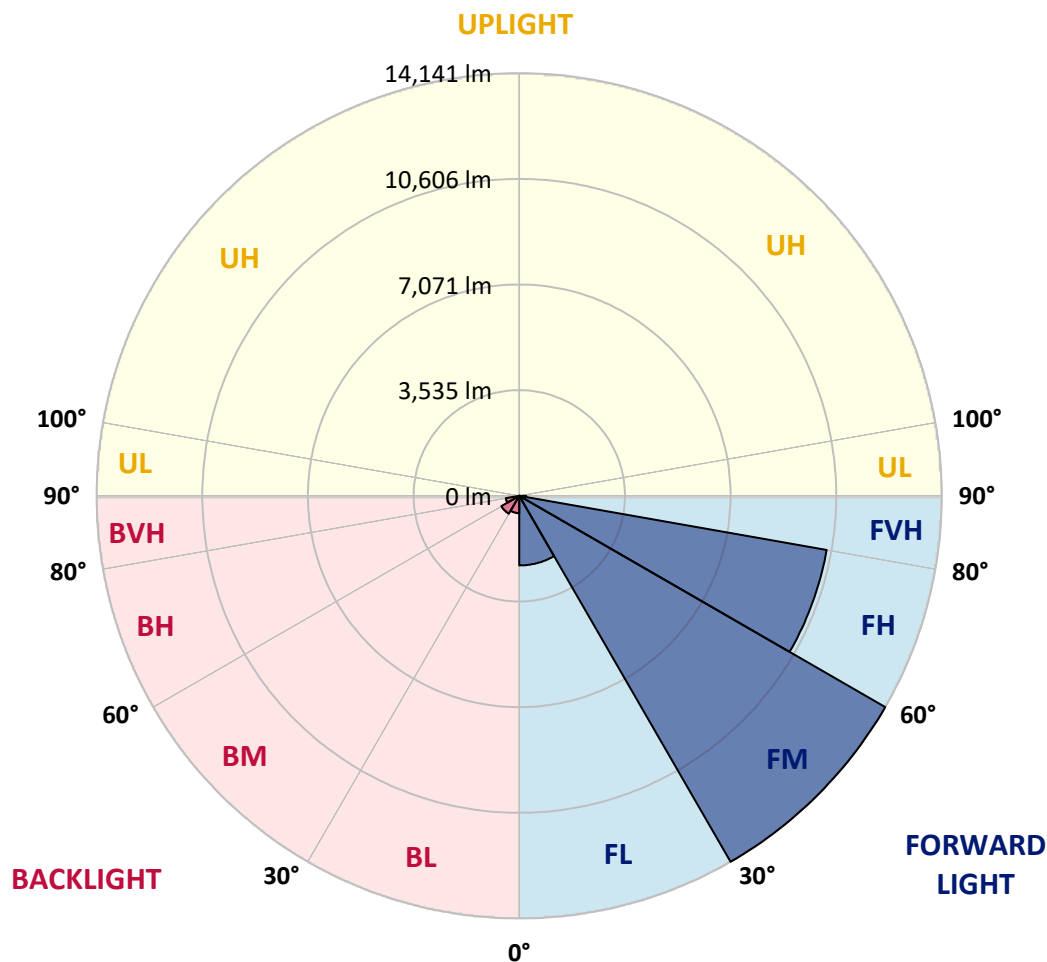
CATALOG NUMBER: GLEON-SA9B-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2330.3	8.1			
FM	(30°-60°)	14141.0	49.0			
FH	(60°-80°)	10443.8	36.2			G4/12000
FVH	(80°-90°)	232.5	0.8			G3/500
BL	(0°-30°)	579.4	2.0	B2/1000		
BM	(30°-60°)	690.7	2.4	B1/1000		
BH	(60°-80°)	456.5	1.6	B1/500		G1/500
BVH	(80°-90°)	5.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6
2.5°	3868.2	3851.8	3844.9	3814.7	3762.6	3722.8	3646.0	3556.9	3540.4	3454.0	3348.4
5°	4370.3	4356.6	4347.0	4304.5	4251.0	4150.8	4010.9	3844.9	3813.4	3648.8	3437.5
7.5°	4720.1	4744.8	4744.8	4717.3	4650.1	4574.7	4403.2	4176.9	4137.1	3884.7	3556.9
10°	4924.5	4954.6	4978.0	5001.3	4991.7	4961.5	4799.6	4544.5	4496.5	4161.8	3695.4
12.5°	4943.7	4973.9	5039.7	5137.1	5231.7	5300.3	5198.8	4951.9	4897.0	4482.8	3860.0
15°	4836.7	4868.2	4969.7	5159.0	5388.1	5588.4	5621.3	5403.2	5347.0	4865.5	4065.8
17.5°	4650.1	4670.7	4816.1	5078.1	5437.5	5805.1	6004.0	5887.4	5835.3	5303.1	4294.8
20°	4511.6	4526.7	4654.2	4935.4	5407.3	5940.9	6366.1	6401.8	6346.9	5772.2	4543.1
22.5°	4748.9	4776.3	4780.4	4913.5	5325.0	6008.1	6684.4	6908.0	6866.8	6270.1	4787.3
25°	5397.7	5429.3	5325.0	5242.7	5395.0	6038.3	6957.4	7426.5	7393.6	6806.5	5032.8
27.5°	6255.0	6288.0	6153.5	5908.0	5761.2	6152.2	7200.1	7953.2	7951.9	7374.4	5297.6
30°	7097.3	7130.2	6993.0	6747.5	6410.0	6474.5	7410.0	8504.7	8512.9	7960.1	5578.8
32.5°	7980.7	8021.8	7880.5	7565.0	7212.5	7031.4	7704.9	9058.8	9105.5	8639.1	5895.6
35°	8984.8	8990.2	8791.3	8460.8	8054.7	7776.3	8178.2	9680.2	9791.3	9479.9	6297.6
37.5°	9969.6	10009.4	9846.2	9324.9	8951.8	8636.3	8881.9	10456.6	10614.4	10507.4	6822.9
40°	10699.4	10783.1	10759.8	10197.4	9843.4	9618.5	9755.7	11379.8	11580.0	11703.5	7485.5
42.5°	11157.6	11220.7	11327.6	10988.8	10667.9	10704.9	10787.2	12455.2	12702.1	13067.0	8246.8
45°	11682.9	11713.1	11802.3	11652.7	11436.0	11809.1	11881.8	13666.4	13925.7	14533.4	9091.7
47.5°	12324.9	12396.2	12420.9	12283.7	12185.0	12785.8	12936.7	14767.9	15131.4	16104.0	9986.1
50°	13142.4	13161.6	13204.2	13115.0	13016.2	13625.3	13883.2	15924.3	16254.9	17680.1	10868.1
52.5°	13942.1	14010.7	14158.9	14102.6	14062.9	14339.9	14726.8	16966.8	17335.8	18994.2	11748.8
55°	14172.6	14231.6	14743.2	15093.0	15416.7	15220.6	15533.3	17900.9	18300.1	20168.4	12596.5
57.5°	13252.2	13371.5	14257.6	15168.5	16511.4	16589.6	16641.7	18859.8	19217.8	21068.2	13478.5
60°	10925.7	10949.1	12403.1	13965.5	16330.3	17784.3	18260.3	19889.9	20190.3	21906.3	14534.7
62.5°	6949.1	7186.4	8781.7	10987.5	14415.4	17611.5	20217.8	21448.2	21557.9	22911.8	16049.1
65°	3310.0	3463.6	4613.1	6788.6	10441.5	15398.9	21568.9	24267.1	24316.4	24904.9	18072.4
67.5°	1832.6	1906.7	2454.0	3654.3	6104.1	10890.1	21023.0	27605.8	27652.5	26940.5	19847.4
69°	1433.4	1496.5	1927.3	2754.4	4138.5	7827.0	19024.4	28583.9	28722.4	27523.5	19910.5
70°	1216.7	1278.4	1659.8	2326.4	3327.8	6047.9	16933.9	28341.1	28487.8	27468.7	19440.0
72.5°	744.8	780.5	1105.6	1637.8	2230.4	3042.5	10442.9	23968.0	24216.3	25197.1	16707.5
75°	502.0	521.3	691.3	1130.3	1595.3	1566.5	5425.1	16894.1	17431.8	19600.5	12340.0
77.5°	359.4	377.2	463.6	731.1	1118.0	1034.3	2456.7	10499.1	10614.4	11755.6	6729.6
80°	204.4	220.8	327.8	434.8	758.6	690.0	976.7	5015.0	5072.6	5041.1	2246.9
82.5°	107.0	120.7	179.7	286.7	487.0	451.3	406.0	1679.0	1687.2	1403.3	492.4
85°	20.6	24.7	89.2	196.2	251.0	196.2	166.0	393.7	401.9	355.3	122.1
87.5°	0.0	1.4	35.7	43.9	49.4	50.8	53.5	76.8	82.3	111.1	32.9
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-SA9B-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6
2.5°	3301.7	3252.3	3157.7	3048.0	2962.9	2879.2	2813.4	2744.8	2720.1	2707.8	2706.4
5°	3334.6	3230.4	3030.1	2824.4	2655.6	2496.5	2382.7	2274.3	2223.6	2200.2	2190.6
7.5°	3389.5	3222.2	2899.8	2585.7	2342.9	2144.0	1986.2	1868.3	1809.3	1784.6	1775.0
10°	3454.0	3211.2	2747.6	2333.3	2023.3	1817.5	1661.2	1544.6	1480.1	1452.6	1438.9
12.5°	3529.4	3192.0	2572.0	2078.2	1750.3	1544.6	1355.3	1211.2	1137.2	1105.6	1090.5
15°	3622.7	3172.8	2388.2	1838.1	1510.3	1259.2	1052.1	954.7	939.6	934.1	935.5
17.5°	3714.6	3142.6	2187.9	1600.8	1257.9	983.5	877.9	872.4	875.2	875.2	875.2
20°	3796.9	3074.0	1969.8	1397.8	1017.8	829.9	807.9	798.3	791.5	786.0	779.1
22.5°	3861.4	2982.1	1759.9	1196.1	831.3	759.9	725.6	695.5	670.8	654.3	646.1
25°	3905.3	2860.0	1567.9	1002.7	747.6	691.3	629.6	578.9	540.5	517.1	507.5
27.5°	3938.2	2728.3	1396.4	839.5	690.0	611.8	530.9	470.5	430.7	410.1	401.9
30°	3961.5	2578.8	1245.5	738.0	625.5	528.1	441.7	382.7	353.9	342.9	337.4
32.5°	3983.5	2412.9	1102.9	690.0	565.1	451.3	370.4	325.1	307.3	293.5	289.4
35°	4038.3	2259.2	967.1	639.2	503.4	385.5	318.2	285.3	267.5	259.3	256.5
37.5°	4168.7	2145.4	836.7	587.1	441.7	333.3	278.5	255.1	238.7	230.4	227.7
40°	4378.5	2087.8	727.0	530.9	381.3	293.5	252.4	230.4	212.6	200.3	197.5
42.5°	4687.2	2096.0	650.2	474.6	333.3	262.0	227.7	201.6	182.4	171.5	168.7
45°	5061.6	2156.3	596.7	419.7	293.5	237.3	200.3	172.8	155.0	145.4	142.7
47.5°	5467.7	2253.7	552.8	370.4	262.0	214.0	172.8	144.0	128.9	120.7	119.3
50°	5895.6	2348.4	507.5	322.4	234.6	190.7	145.4	119.3	107.0	100.1	97.4
52.5°	6329.1	2458.1	466.4	278.5	211.2	163.2	120.7	97.4	87.8	82.3	79.6
55°	6795.5	2540.4	426.6	244.2	187.9	138.5	100.1	80.9	72.7	65.8	64.5
57.5°	7344.2	2668.0	385.5	211.2	160.5	115.2	82.3	64.5	57.6	50.8	49.4
60°	8084.9	2817.5	341.6	186.6	131.7	94.6	67.2	52.1	43.9	38.4	37.0
62.5°	9061.6	2983.5	286.7	163.2	107.0	76.8	53.5	41.2	31.5	24.7	24.7
65°	10300.2	3253.7	234.6	137.2	87.8	63.1	41.2	30.2	17.8	11.0	11.0
67.5°	11023.1	3300.4	189.3	112.5	71.3	53.5	34.3	20.6	5.5	1.4	0.0
69°	10791.3	3030.1	160.5	96.0	61.7	50.8	31.5	15.1	2.7	0.0	0.0
70°	10355.1	2770.9	141.3	85.0	56.2	48.0	30.2	11.0	2.7	0.0	0.0
72.5°	8556.8	1972.5	107.0	63.1	41.2	42.5	27.4	6.9	2.7	0.0	0.0
75°	6233.1	1198.9	76.8	43.9	26.1	31.5	19.2	2.7	1.4	0.0	0.0
77.5°	3467.7	565.1	48.0	24.7	16.5	19.2	9.6	0.0	0.0	0.0	0.0
80°	1126.2	153.6	21.9	13.7	9.6	11.0	4.1	0.0	0.0	0.0	0.0
82.5°	208.5	43.9	12.3	6.9	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	45.3	17.8	6.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	5.5	1.4	0.0	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

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



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)