

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: P321761

Luminaire Tested: **GLEON-SA7B-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24703 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

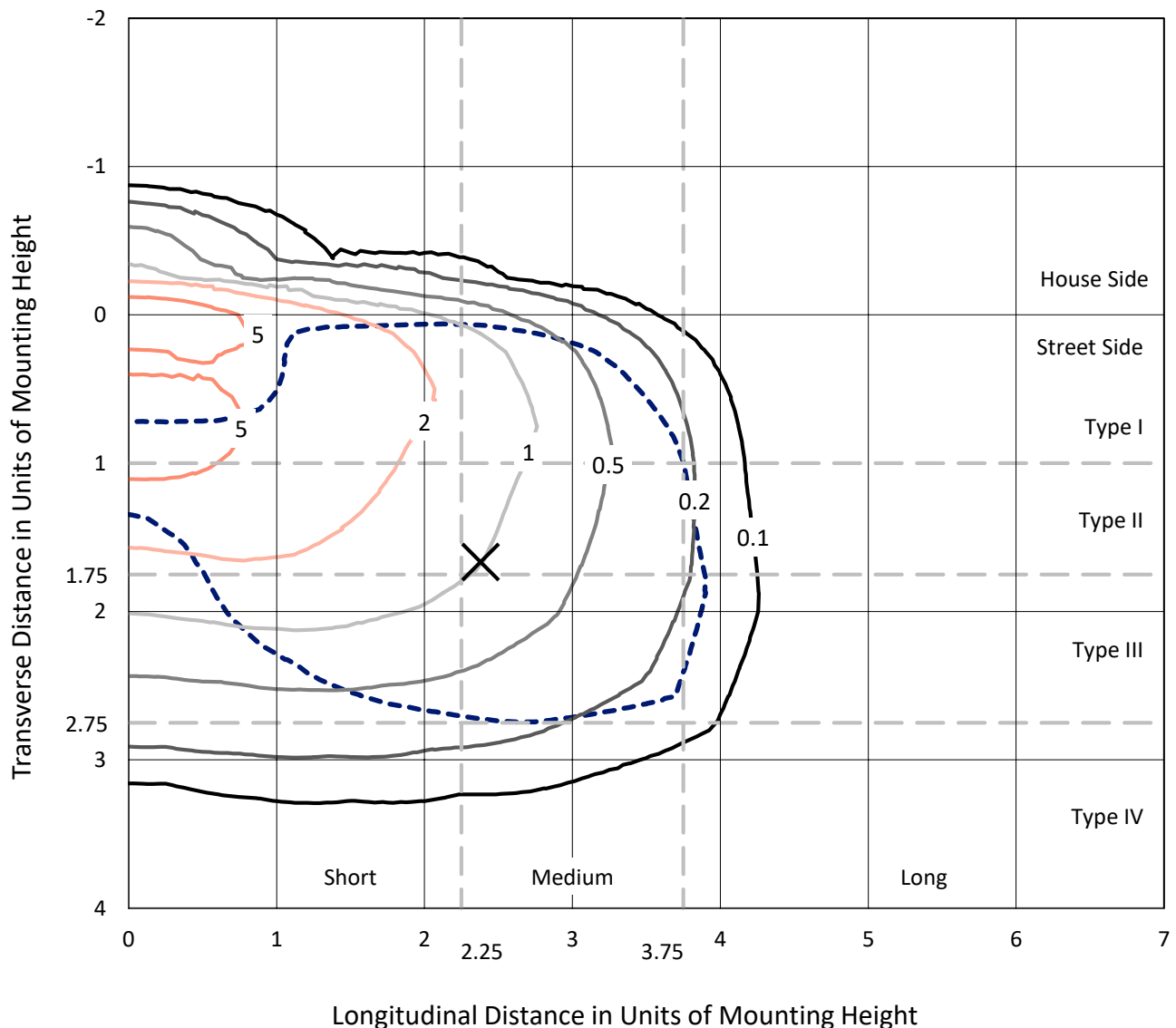
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

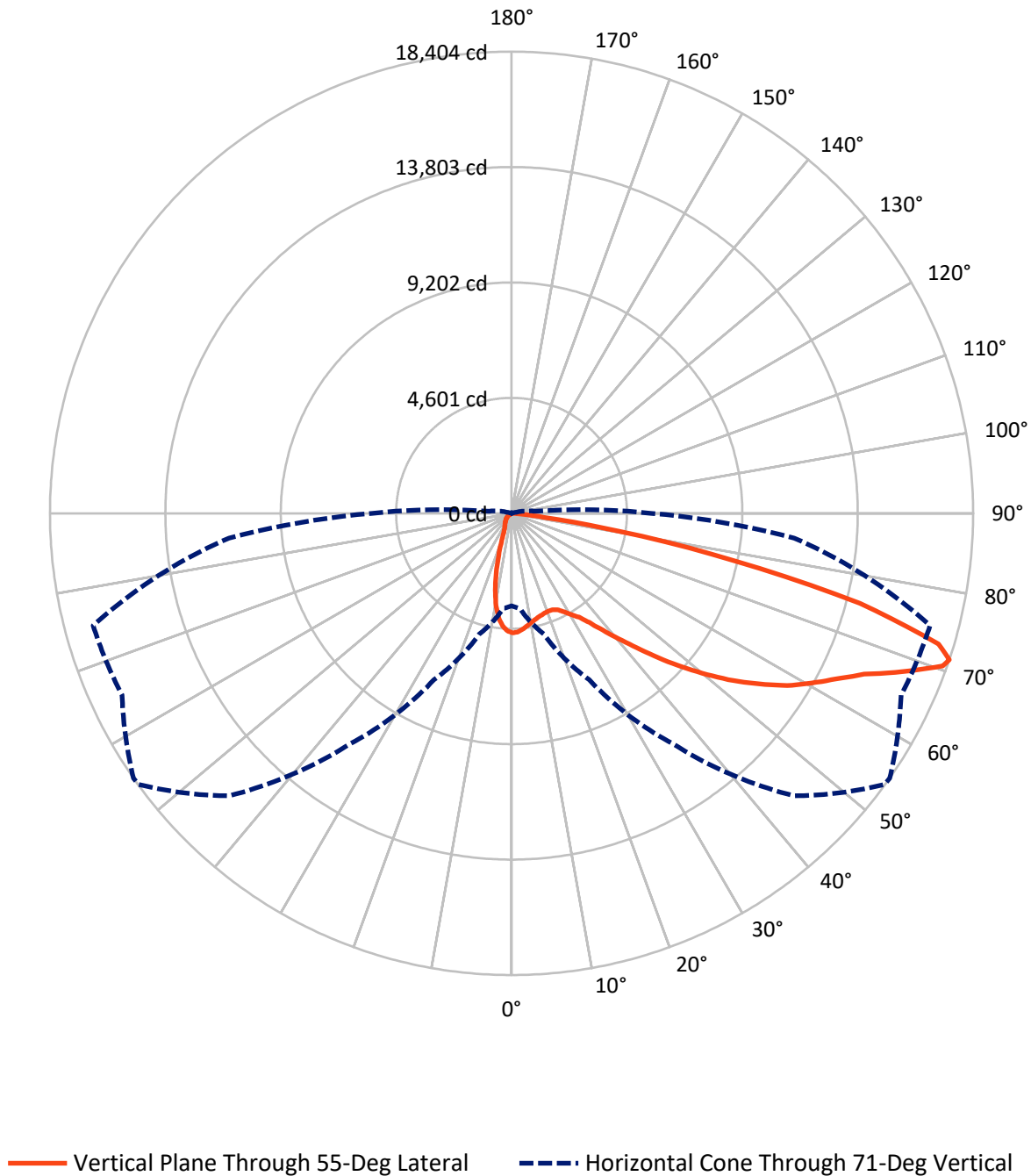
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	1955.8	0.0	1955.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	22747.2	0.0	22747.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	24703.0	0.0	24703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.2	1.6
10°-20°	917.0	3.7
20°-30°	1473.7	6.0
30°-40°	2503.9	10.1
40°-50°	3886.3	15.7
50°-60°	5225.1	21.2
60°-70°	6392.0	25.9
70°-80°	3737.3	15.1
80°-90°	161.5	0.7
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°	24703.0	100.0
0°-180°	24703.0	100.0

Coefficient of Utilization



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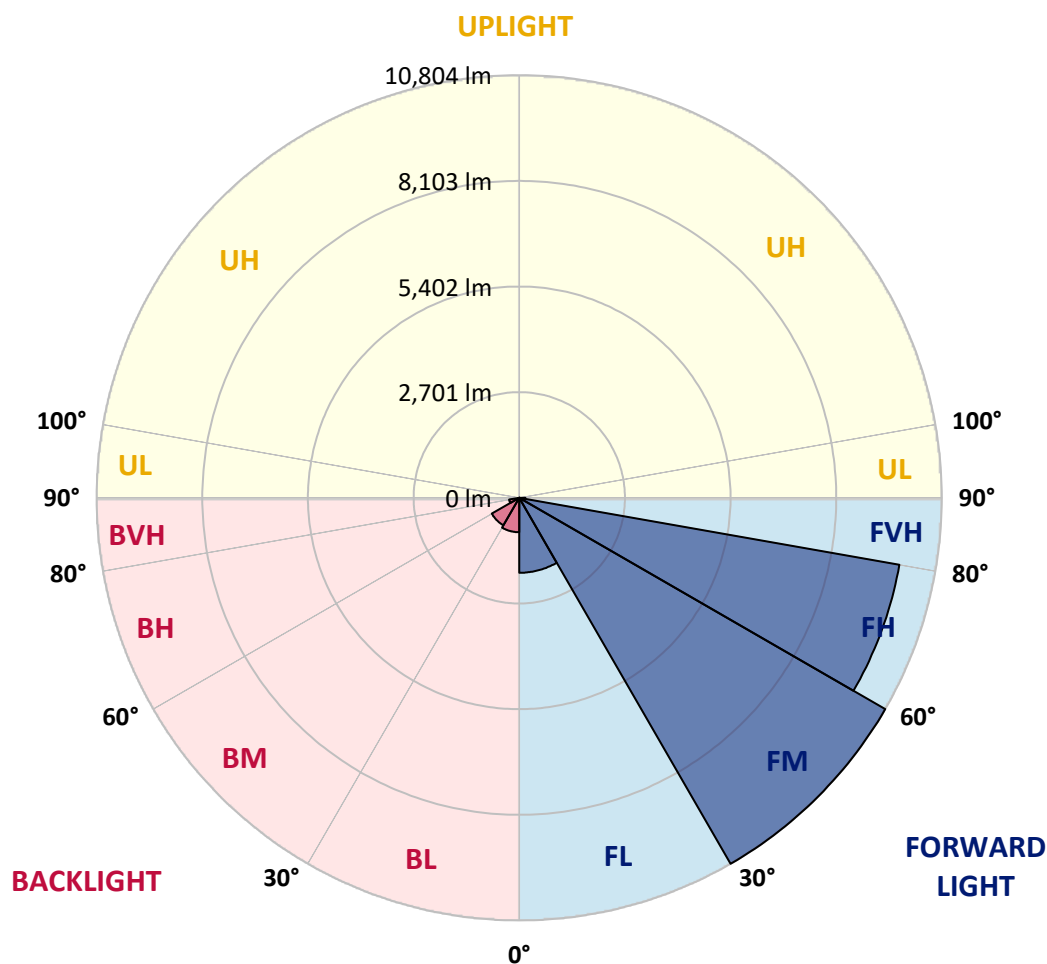
CATALOG NUMBER: GLEON-SA7B-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1916.6	7.8			
FM	(30°-60°)	10804.4	43.7			
FH	(60°-80°)	9867.2	39.9			G4/12000
FVH	(80°-90°)	159.0	0.6			G2/225
BL	(0°-30°)	880.3	3.6	B2/1000		
BM	(30°-60°)	810.9	3.3	B1/1000		
BH	(60°-80°)	262.0	1.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1
2.5°	4624.3	4629.8	4649.8	4658.7	4679.8	4715.3	4733.0	4734.1	4763.0	4774.0	4782.9
5°	4297.1	4330.4	4363.6	4399.1	4463.5	4548.9	4633.2	4640.9	4734.1	4802.9	4839.5
7.5°	4015.3	4045.3	4085.2	4141.8	4232.8	4367.0	4507.8	4524.5	4700.8	4857.2	4939.3
10°	3725.8	3750.2	3807.9	3891.1	4016.5	4196.1	4385.8	4413.6	4670.9	4930.4	5074.6
12.5°	3416.4	3430.8	3500.7	3620.5	3804.6	4033.1	4282.7	4319.3	4652.0	5014.7	5234.4
15°	3181.2	3187.9	3254.4	3378.7	3589.4	3886.7	4202.8	4247.2	4656.5	5115.7	5408.5
17.5°	3121.3	3124.6	3160.1	3245.6	3431.9	3755.8	4139.6	4193.9	4669.8	5214.4	5583.8
20°	3364.2	3340.9	3304.3	3291.0	3370.9	3677.0	4101.9	4162.9	4687.5	5302.0	5741.3
22.5°	4030.9	3962.1	3810.1	3607.2	3484.0	3682.6	4111.8	4172.9	4744.1	5409.6	5923.2
25°	5020.3	4924.9	4666.5	4267.1	3883.3	3842.3	4195.0	4257.2	4853.9	5538.3	6097.3
27.5°	6146.1	6051.9	5735.7	5165.6	4511.2	4158.4	4385.8	4443.5	5017.0	5652.5	6230.4
30°	7224.3	7197.7	6825.0	6177.2	5300.9	4670.9	4632.1	4680.9	5137.9	5721.3	6335.8
32.5°	8138.3	8096.1	7796.6	7166.6	6204.9	5286.5	4921.6	4936.0	5228.8	5810.0	6473.4
35°	8985.7	8933.6	8670.7	8075.1	7132.2	6038.5	5367.5	5346.4	5427.4	5988.6	6673.0
37.5°	9725.6	9773.3	9481.5	8914.7	7964.1	6820.5	5968.7	5905.4	5737.9	6279.2	6962.5
40°	10344.5	10344.5	10192.5	9720.0	8862.6	7629.2	6648.6	6565.4	6204.9	6727.4	7329.7
42.5°	10567.5	10615.2	10671.7	10404.4	9666.8	8469.9	7406.2	7319.7	6862.7	7362.9	7793.3
45°	10580.8	10656.2	10945.7	10944.6	10393.3	9305.2	8260.3	8219.3	7705.7	8179.3	8367.9
47.5°	10393.3	10487.6	10964.6	11235.2	10969.0	10082.7	9194.3	9143.2	8696.2	9179.8	8969.1
50°	10103.8	10208.1	10762.7	11349.4	11360.5	10759.3	10178.1	10101.6	9786.6	10323.4	9590.2
52.5°	9585.8	9787.7	10581.9	11376.1	11617.9	11343.9	11114.3	11081.0	11006.7	11424.9	10084.9
55°	8477.7	8701.8	10128.2	11384.9	11856.4	11861.9	11991.7	12000.6	12150.3	12454.2	10453.2
57.5°	7954.2	8080.6	9336.2	11427.1	12210.2	12449.8	12885.7	12954.5	13186.3	13431.4	10873.6
60°	7624.7	7774.5	8945.8	11369.4	12765.9	13220.7	13714.3	13737.6	13986.0	14439.7	11442.6
62.5°	7361.8	7509.4	8699.5	11147.6	13390.4	14148.0	14524.0	14526.2	14712.6	15641.0	12089.3
65°	6712.9	6837.2	8201.5	10898.0	13803.0	15065.3	15464.6	15450.2	15602.2	16907.7	12840.2
67.5°	5774.6	5869.9	7184.4	9951.8	13647.7	15899.4	16884.4	16836.7	16652.6	18002.5	13135.3
70°	4464.6	4499.0	5662.5	8293.6	12192.4	16220.0	18256.5	18232.1	17297.0	17806.2	12053.8
71°	3690.3	3803.5	4990.3	7319.7	11217.5	15923.8	18389.6	18404.0	17135.1	17271.5	11309.5
72.5°	2143.0	2239.5	3617.1	5621.5	9523.7	14688.2	17699.7	17803.9	16378.6	15709.8	9660.1
75°	459.2	491.4	1341.0	2720.9	5238.8	10294.6	13970.5	14342.1	13349.4	10687.3	5822.2
77.5°	319.5	345.0	574.6	1234.6	1731.5	5086.8	8678.5	9097.8	7975.2	4016.5	1863.5
80°	252.9	281.7	448.1	610.1	468.1	1640.5	4065.3	4321.5	2659.9	896.2	313.9
82.5°	140.9	167.5	349.4	329.4	179.7	311.7	1138.1	1286.7	532.4	180.8	74.3
85°	41.0	49.9	225.2	239.6	76.5	59.9	194.1	240.7	100.9	47.7	33.3
87.5°	0.0	0.0	108.7	92.1	22.2	8.9	17.7	20.0	20.0	20.0	22.2
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-SA7B-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1	4764.1
2.5°	4782.9	4790.7	4763.0	4726.3	4687.5	4639.8	4589.9	4551.1	4550.0	4531.1	4512.3
5°	4841.7	4837.3	4760.7	4644.3	4506.7	4363.6	4227.2	4073.0	4022.0	3958.8	3937.7
7.5°	4950.4	4919.4	4757.4	4502.3	4200.6	3901.1	3591.6	3279.9	3146.8	3027.0	3006.0
10°	5086.8	5028.1	4736.3	4289.3	3735.8	3183.4	2716.5	2292.7	2106.4	1963.3	1956.6
12.5°	5228.8	5139.0	4677.5	3967.6	3126.9	2350.4	1812.5	1395.4	1240.1	1140.3	1149.1
15°	5377.5	5243.2	4551.1	3533.9	2433.6	1595.0	1113.6	868.5	806.4	780.9	787.5
17.5°	5529.4	5315.3	4374.7	3011.5	1749.2	1029.3	770.9	702.1	702.1	707.7	709.9
20°	5661.4	5354.2	4115.2	2425.8	1185.7	749.8	674.4	664.4	670.0	678.8	679.9
22.5°	5792.3	5356.4	3776.9	1832.4	829.7	656.7	642.2	637.8	641.1	651.1	652.2
25°	5898.8	5329.8	3353.1	1303.3	662.2	618.9	612.3	610.1	612.3	624.5	624.5
27.5°	5942.0	5233.3	2836.3	916.2	593.4	576.8	574.6	576.8	580.1	589.0	590.1
30°	5946.5	5064.7	2272.8	663.3	538.0	520.2	524.7	532.4	529.1	526.9	529.1
32.5°	5957.6	4869.4	1723.7	545.7	491.4	463.7	458.1	458.1	444.8	437.0	432.6
35°	5994.2	4639.8	1250.1	490.3	443.7	411.5	390.4	366.0	340.5	327.2	323.9
37.5°	6051.9	4399.1	895.1	453.7	401.5	364.9	325.0	281.7	245.1	235.2	235.2
40°	6157.2	4150.7	662.2	424.8	368.3	322.8	262.9	206.3	173.0	167.5	167.5
42.5°	6323.6	3888.9	528.0	399.3	339.4	279.5	200.8	149.7	125.3	122.0	120.9
45°	6496.7	3600.5	461.4	374.9	308.4	229.6	148.6	110.9	96.5	93.2	93.2
47.5°	6669.7	3293.2	429.3	351.6	278.4	178.6	110.9	87.6	81.0	81.0	82.1
50°	6816.1	2972.7	406.0	326.1	239.6	135.3	87.6	74.3	72.1	76.5	77.6
52.5°	6852.7	2657.7	377.1	293.9	191.9	103.2	72.1	65.4	65.4	65.4	65.4
55°	6830.5	2413.6	339.4	254.0	142.0	82.1	62.1	57.7	56.6	56.6	56.6
57.5°	6905.9	2269.4	271.8	197.4	102.0	66.6	54.4	51.0	48.8	47.7	47.7
60°	7057.9	2175.2	194.1	142.0	76.5	55.5	46.6	43.3	39.9	37.7	37.7
62.5°	7259.8	2093.1	144.2	105.4	58.8	44.4	38.8	35.5	31.1	28.8	28.8
65°	7415.1	1946.7	109.8	78.8	44.4	35.5	29.9	28.8	22.2	20.0	18.9
67.5°	7177.7	1625.0	88.7	57.7	33.3	27.7	23.3	22.2	13.3	11.1	11.1
70°	6156.1	1131.4	71.0	42.2	24.4	22.2	18.9	14.4	10.0	8.9	8.9
71°	5582.7	945.0	64.3	35.5	21.1	21.1	17.7	12.2	8.9	7.8	7.8
72.5°	4637.6	671.1	54.4	27.7	18.9	22.2	18.9	11.1	8.9	7.8	6.7
75°	2692.1	280.6	37.7	18.9	14.4	26.6	24.4	10.0	6.7	5.5	5.5
77.5°	809.7	103.2	21.1	12.2	11.1	23.3	27.7	8.9	3.3	1.1	1.1
80°	147.5	44.4	13.3	7.8	7.8	14.4	21.1	4.4	0.0	0.0	0.0
82.5°	52.1	22.2	7.8	4.4	3.3	6.7	10.0	0.0	0.0	0.0	0.0
85°	29.9	15.5	4.4	2.2	0.0	1.1	2.2	0.0	0.0	0.0	0.0
87.5°	20.0	4.4	0.0	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 $\text{W}^\wedge/\text{nm}$	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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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)