

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635526

Luminaire Tested: GWS-SA3D-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8632.7 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

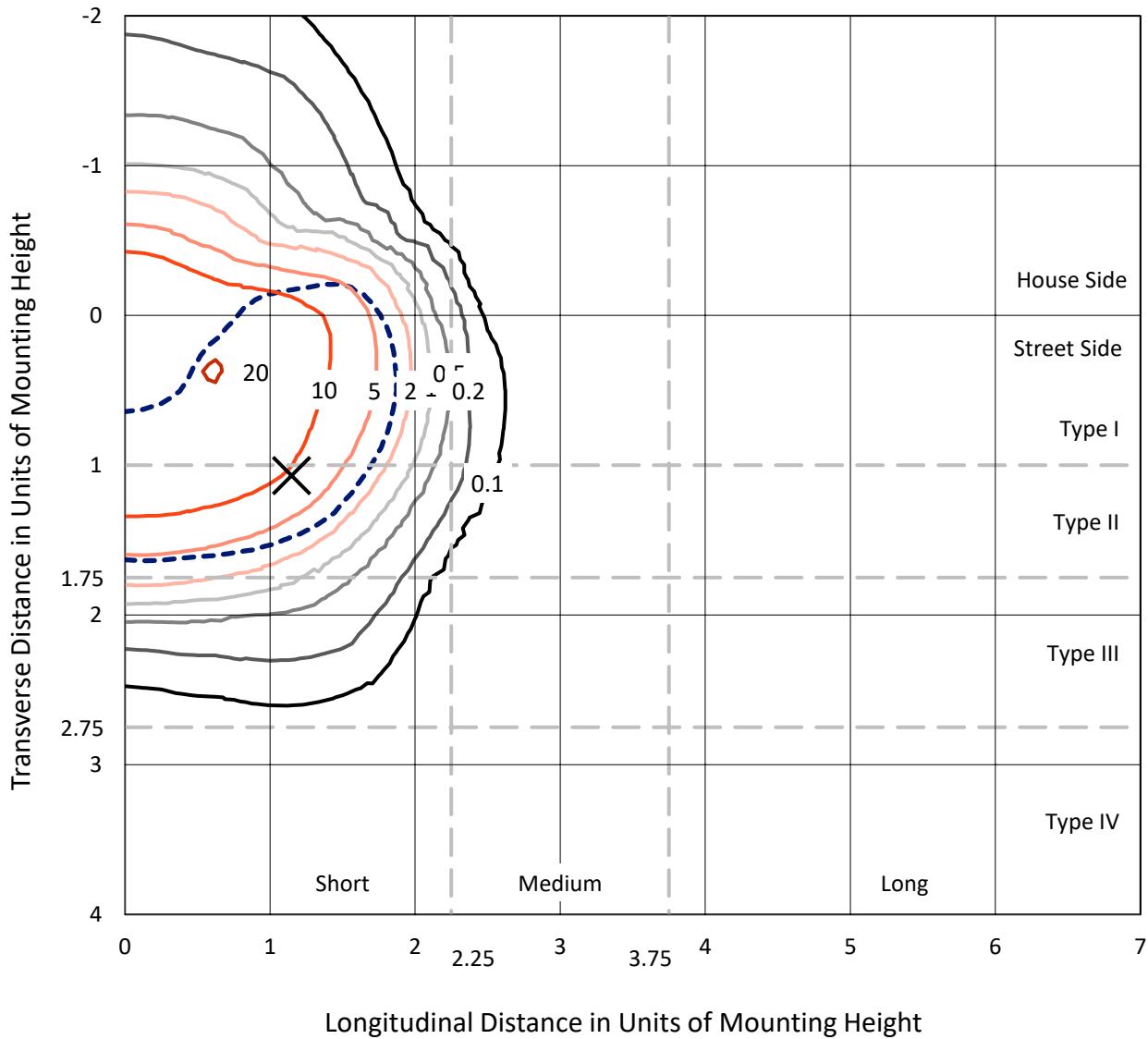
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

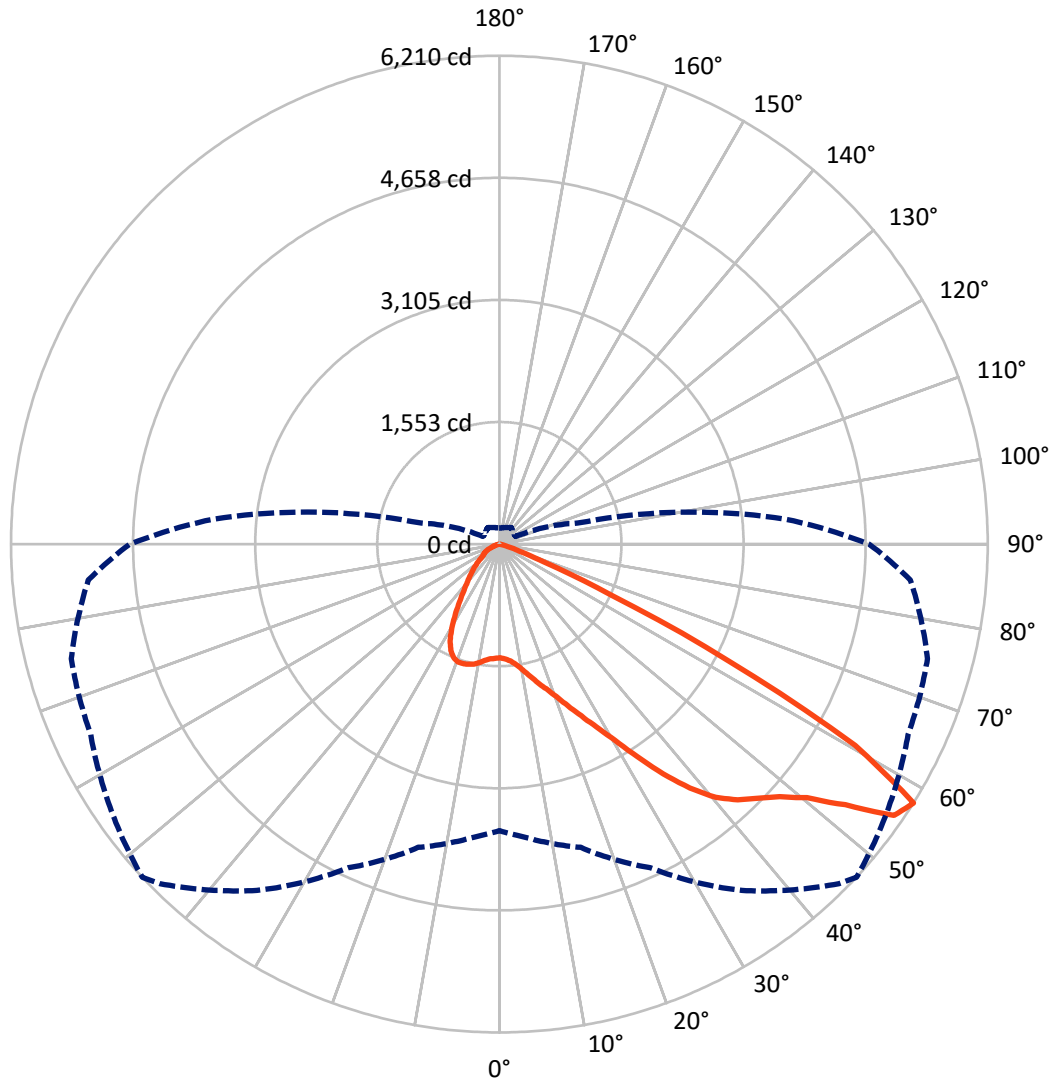
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1872.8	0.0	1872.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6759.8	0.0	6759.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	8632.7	0.0	8632.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	1.7
10°-20°	485.1	5.6
20°-30°	900.8	10.4
30°-40°	1442.0	16.7
40°-50°	2107.8	24.4
50°-60°	2601.4	30.1
60°-70°	869.2	10.1
70°-80°	81.0	0.9
80°-90°	1.7	0.0
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°	8632.7	100.0
0°-180°	8632.7	100.0

Coefficient of Utilization



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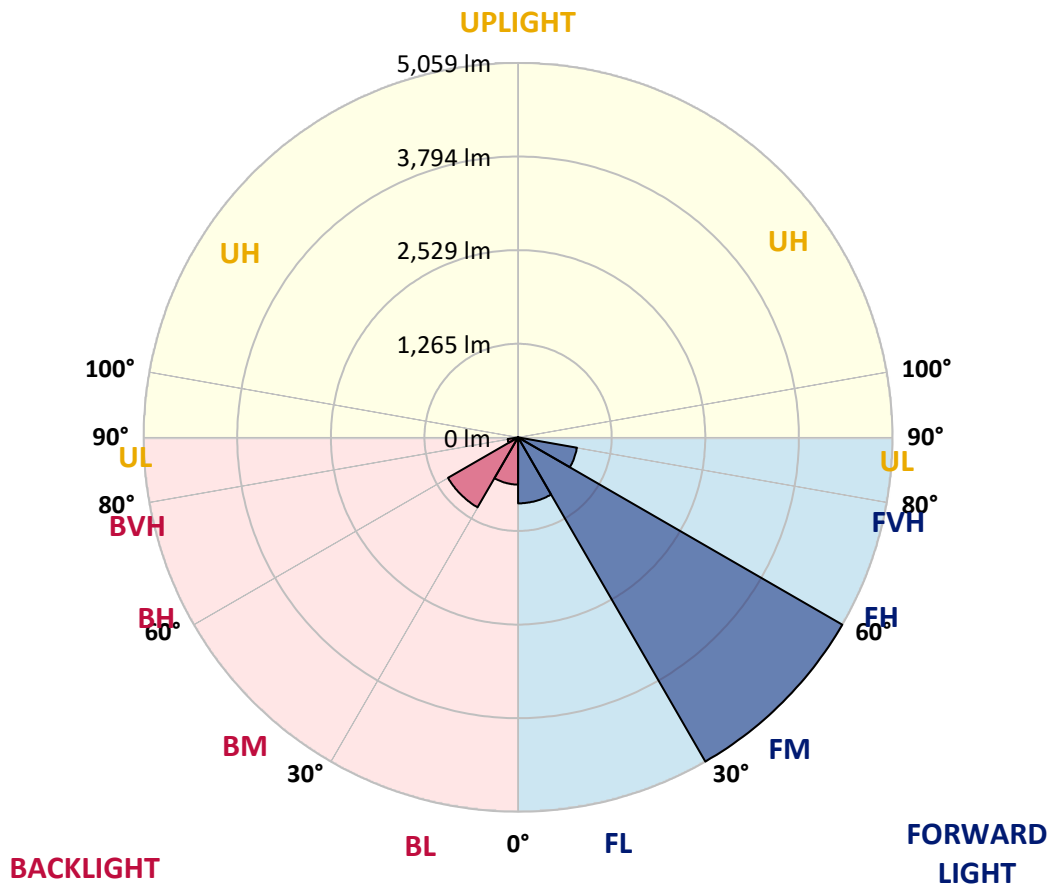
CATALOG NUMBER: GWS-SA3D-830-U-T3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.2	10.3			
FM (30°-60°)	5058.7	58.6			
FH (60°-80°)	807.8	9.4			G1/1800
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	637.5	7.4	B2/1000		
BM (30°-60°)	1092.4	12.7	B2/2500		
BH (60°-80°)	142.4	1.6	B1/500		G1/500
BVH (80°-90°)	0.5	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-G1

Type II Short





REPORT NUMBER: P635526
 CATALOG NUMBER: GWS-SA3D-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1460.2	1459.2	1458.2	1464.2	1462.2	1461.2	1463.2	1463.2	1463.2	1457.1	1445.1
5°	1495.2	1495.2	1494.2	1500.2	1495.2	1492.2	1493.2	1493.2	1489.2	1478.2	1463.2
7.5°	1550.4	1548.3	1546.3	1552.4	1547.3	1546.3	1548.3	1542.3	1535.3	1517.3	1496.2
10°	1629.5	1629.5	1626.5	1632.5	1628.5	1626.5	1626.5	1622.5	1609.5	1581.4	1550.4
12.5°	1738.8	1733.7	1726.7	1721.7	1719.7	1718.7	1719.7	1713.7	1699.7	1663.6	1620.5
15°	1858.0	1854.0	1843.0	1835.0	1823.9	1821.9	1828.0	1822.9	1808.9	1759.8	1698.7
17.5°	2008.3	2013.4	1985.3	1968.3	1936.2	1934.2	1936.2	1944.2	1934.2	1871.0	1781.9
20°	2136.6	2140.6	2119.6	2107.6	2078.5	2065.5	2069.5	2082.5	2071.5	1997.3	1873.0
22.5°	2273.9	2278.9	2256.9	2231.8	2218.8	2218.8	2233.8	2251.9	2236.8	2139.6	1977.3
25°	2438.3	2442.3	2424.2	2391.2	2368.1	2397.2	2419.2	2467.3	2442.3	2310.0	2100.5
27.5°	2626.7	2627.7	2601.6	2567.5	2555.5	2609.6	2631.7	2705.8	2695.8	2501.4	2230.8
30°	2828.1	2829.1	2823.1	2800.1	2789.0	2860.2	2890.2	2997.5	2990.5	2738.9	2408.2
32.5°	3037.6	3037.6	3048.6	3046.6	3059.6	3175.9	3224.0	3346.2	3339.2	3029.5	2628.7
35°	3248.0	3249.0	3268.1	3316.2	3370.3	3524.6	3587.8	3736.1	3720.0	3377.3	2910.3
37.5°	3487.5	3477.5	3503.6	3575.7	3696.0	3874.4	3934.5	4075.8	4057.8	3733.1	3278.1
40°	3776.2	3758.1	3758.1	3842.3	3978.6	4184.0	4235.2	4305.3	4244.2	4020.7	3638.9
42.5°	4094.8	4077.8	4055.8	4129.9	4244.2	4404.5	4446.6	4427.6	4377.5	4292.3	4049.8
45°	4417.5	4391.5	4406.5	4451.6	4517.8	4593.9	4610.0	4521.8	4498.7	4522.8	4389.5
47.5°	4663.1	4645.0	4682.1	4745.3	4799.4	4810.4	4799.4	4677.1	4675.1	4760.3	4625.0
50°	4745.3	4747.3	4849.5	4987.8	5075.0	5084.0	5069.0	4928.7	4909.6	4934.7	4752.3
52.5°	4753.3	4761.3	4910.6	5174.2	5411.7	5519.9	5507.9	5356.6	5170.2	5143.1	4944.7
55°	4559.9	4607.0	4815.4	5200.2	5705.3	6051.1	6091.2	5801.5	5524.9	5501.9	5358.6
57.5°	3644.9	3741.1	3992.6	4540.8	5377.6	6106.2	6210.4	6002.0	5734.4	5636.2	5247.3
60°	2178.7	2298.0	2539.5	3211.9	4092.8	5018.8	5198.2	5227.3	5104.0	4820.4	4025.7
62.5°	935.0	925.0	1222.6	1737.8	2434.3	3189.9	3271.1	3397.3	3504.6	3207.9	2443.3
65°	320.7	348.8	485.0	783.7	1218.6	1481.2	1553.4	1666.6	1818.9	1501.2	894.9
67.5°	198.4	210.5	279.6	463.0	657.4	647.4	615.3	597.3	581.3	397.9	245.5
70°	144.3	154.3	196.4	318.7	442.0	310.7	269.6	218.5	242.5	223.5	174.4
72.5°	97.2	105.2	135.3	193.4	226.5	151.3	140.3	159.3	192.4	183.4	142.3
75°	58.1	63.1	77.2	94.2	92.2	78.2	79.2	112.2	147.3	137.3	101.2
77.5°	40.1	42.1	51.1	61.1	45.1	24.1	22.0	31.1	50.1	50.1	34.1
80°	10.0	13.0	13.0	8.0	7.0	6.0	6.0	9.0	14.0	10.0	5.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P635526

CATALOG NUMBER: GWS-SA3D-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1452.1	1440.1	1448.1	1446.1	1452.1	1454.1	1445.1	1443.1	1444.1	1432.1	1428.1
5°	1466.2	1452.1	1456.1	1452.1	1459.2	1465.2	1462.2	1466.2	1471.2	1462.2	1458.2
7.5°	1496.2	1482.2	1481.2	1475.2	1485.2	1489.2	1488.2	1499.2	1509.3	1503.2	1497.2
10°	1548.3	1529.3	1527.3	1522.3	1525.3	1528.3	1517.3	1519.3	1528.3	1521.3	1518.3
12.5°	1612.5	1589.4	1584.4	1572.4	1572.4	1557.4	1533.3	1528.3	1535.3	1530.3	1525.3
15°	1681.6	1650.6	1642.5	1621.5	1601.5	1573.4	1548.3	1542.3	1547.3	1541.3	1537.3
17.5°	1758.8	1723.7	1697.7	1660.6	1616.5	1583.4	1555.4	1542.3	1534.3	1522.3	1521.3
20°	1835.0	1788.9	1744.8	1685.6	1627.5	1577.4	1531.3	1497.2	1468.2	1450.1	1443.1
22.5°	1923.2	1855.0	1783.9	1700.7	1617.5	1541.3	1460.2	1402.0	1351.9	1334.9	1326.9
25°	2017.4	1929.2	1822.9	1714.7	1583.4	1461.2	1350.9	1264.7	1198.6	1176.5	1167.5
27.5°	2121.6	2000.3	1863.0	1711.7	1513.3	1346.9	1200.6	1093.4	1028.2	1008.2	1015.2
30°	2253.9	2092.5	1913.1	1680.6	1408.0	1186.6	1015.2	925.0	875.9	856.9	857.9
32.5°	2430.3	2224.8	1986.3	1614.5	1272.8	1004.2	853.8	787.7	754.6	729.6	727.6
35°	2682.8	2426.2	2054.4	1508.3	1108.4	841.8	732.6	680.5	634.4	605.3	610.3
37.5°	2985.5	2679.8	2091.5	1364.9	924.0	715.5	641.4	588.3	536.2	493.1	498.1
40°	3344.2	3011.5	2088.5	1176.5	755.6	629.4	565.2	503.1	437.9	398.9	402.9
42.5°	3744.1	3325.2	2023.4	977.1	626.4	559.2	492.1	413.9	350.8	326.7	327.7
45°	4090.8	3579.7	1909.1	770.7	527.1	491.1	415.9	335.7	307.7	290.6	289.6
47.5°	4347.4	3766.1	1745.8	606.3	447.0	428.9	341.7	300.6	278.6	264.6	262.6
50°	4490.7	3831.3	1565.4	475.0	377.8	363.8	305.7	272.6	257.6	248.5	246.5
52.5°	4683.1	3909.4	1436.1	374.8	316.7	297.6	281.6	253.5	243.5	236.5	233.5
55°	4987.8	4060.8	1323.9	297.6	263.6	259.6	265.6	242.5	236.5	225.5	221.5
57.5°	4701.2	3647.9	1028.2	230.5	222.5	237.5	256.6	231.5	216.5	206.4	202.4
60°	3308.1	2425.2	517.1	185.4	198.4	222.5	241.5	209.5	194.4	196.4	194.4
62.5°	1823.9	1213.6	232.5	155.3	172.4	196.4	206.4	181.4	171.4	188.4	191.4
65°	596.3	412.9	134.3	120.3	136.3	160.3	178.4	172.4	170.4	190.4	196.4
67.5°	183.4	136.3	91.2	86.2	94.2	118.3	150.3	186.4	200.4	206.4	209.5
70°	137.3	107.2	78.2	73.2	77.2	90.2	127.3	155.3	146.3	147.3	145.3
72.5°	110.2	85.2	67.1	64.1	64.1	62.1	67.1	84.2	95.2	100.2	100.2
75°	77.2	60.1	51.1	47.1	37.1	30.1	27.1	27.1	24.1	23.0	22.0
77.5°	26.1	22.0	20.0	16.0	11.0	9.0	8.0	7.0	5.0	3.0	2.0
80°	4.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
82.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
85°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



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 [^] /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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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 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			

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)