

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: CORELITE

Report Number: P571979

Luminaire Tested: 22ID-50-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-50-L835-DBR
Description: 5000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5029.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

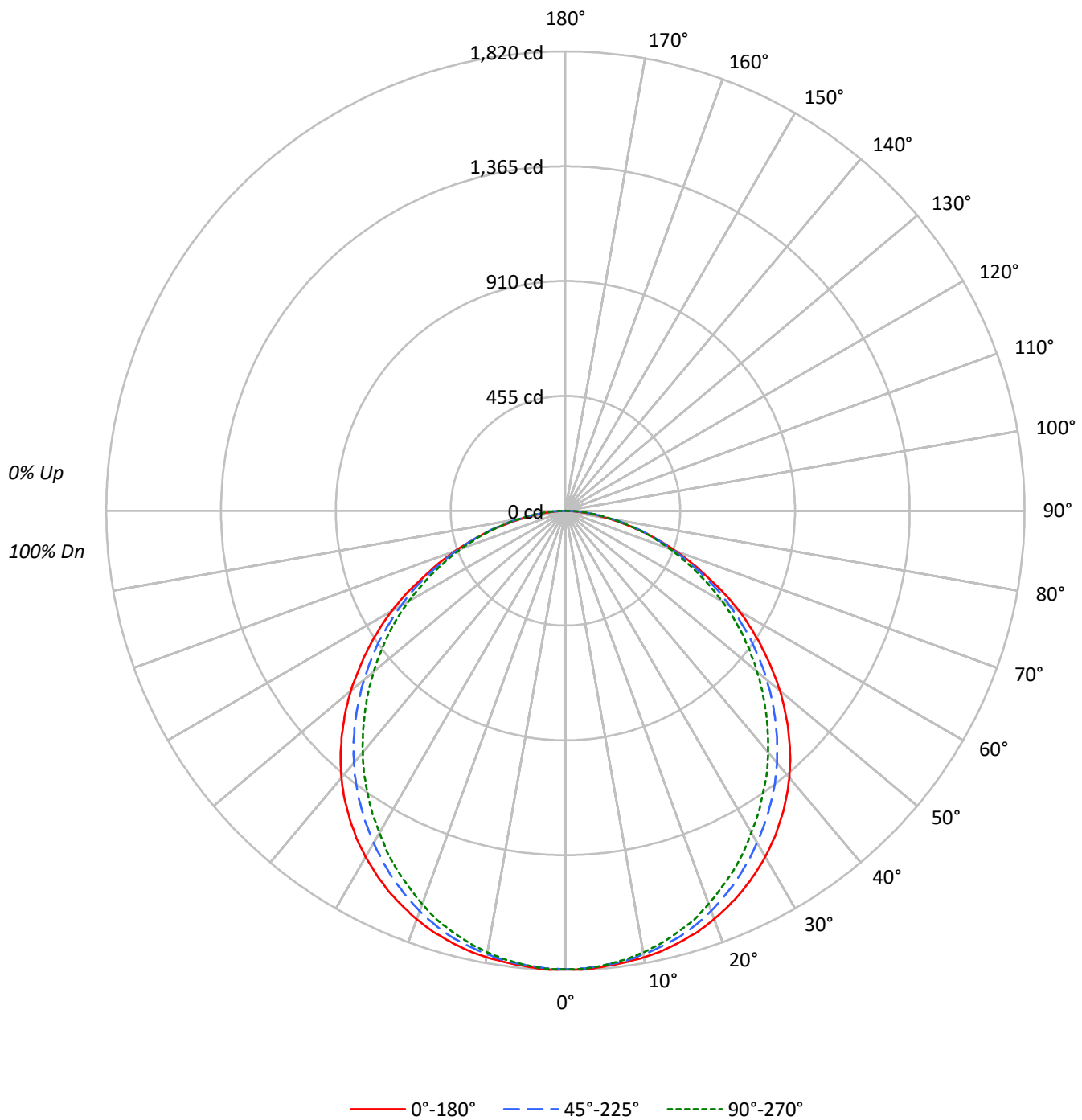
Input Watts (W): 41.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	78	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4891	4891	4891
5°	4896	4883	4883
10°	4912	4878	4858
15°	4925	4870	4815
20°	4935	4835	4750
25°	4932	4785	4675
30°	4923	4723	4576
35°	4895	4659	4488
40°	4852	4581	4390
45°	4765	4482	4274
50°	4650	4360	4152
55°	4479	4222	4025
60°	4283	4043	3857
65°	3947	3820	3647
70°	3629	3570	3453
75°	3197	3300	3197
80°	2613	2882	2882
85°	1609	2297	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.4
10°-20°	492.9	9.8
20°-30°	743.9	14.8
30°-40°	890.1	17.7
40°-50°	911.5	18.1
50°-60°	805.8	16.0
60°-70°	595.3	11.8
70°-80°	332.7	6.6
80°-90°	85.0	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°-30°	1408.7	28.0
0°-40°	2298.8	45.7
0°-60°	4016.1	79.9
0°-90°	5029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1812	1810	1808	1805	1808	173
15°	1768	1760	1748	1733	1728	499
25°	1661	1646	1612	1584	1574	766
35°	1490	1468	1418	1379	1366	932
45°	1252	1227	1178	1136	1123	965
55°	955	937	900	868	858	853
65°	620	620	600	580	573	618
75°	308	320	317	312	308	327
85°	52	67	74	77	74	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1817.5	1817.5	1817.5	1817.5	1817.5
2.5°	1819.9	1815.0	1815.0	1815.0	1817.5
5°	1812.5	1810.0	1807.5	1805.1	1807.5
7.5°	1805.1	1802.6	1800.1	1792.7	1795.1
10°	1797.6	1792.7	1785.2	1777.8	1777.8
12.5°	1785.2	1777.8	1767.9	1757.9	1755.5
15°	1767.9	1760.4	1748.0	1733.2	1728.2
17.5°	1748.0	1738.1	1720.8	1703.4	1698.4
20°	1723.2	1713.3	1688.5	1666.2	1658.8
22.5°	1693.5	1681.1	1651.3	1626.5	1616.6
25°	1661.2	1646.4	1611.7	1584.4	1574.5
27.5°	1624.1	1606.7	1567.0	1537.3	1527.4
30°	1584.4	1564.5	1519.9	1487.7	1472.8
32.5°	1539.8	1517.4	1470.3	1433.1	1423.2
35°	1490.2	1467.8	1418.3	1378.6	1366.2
37.5°	1438.1	1413.3	1363.7	1321.6	1311.6
40°	1381.1	1356.3	1304.2	1259.6	1249.7
42.5°	1319.1	1291.8	1242.2	1200.1	1187.7
45°	1252.1	1227.3	1177.7	1135.6	1123.2
47.5°	1182.7	1160.4	1110.8	1071.1	1058.7
50°	1110.8	1088.5	1041.4	1001.7	991.8
52.5°	1031.5	1014.1	972.0	932.3	924.8
55°	954.6	937.2	900.0	867.8	857.9
57.5°	875.3	857.9	825.7	793.4	788.5
60°	795.9	781.0	751.3	726.5	716.6
62.5°	709.1	704.2	679.4	652.1	644.7
65°	619.9	619.9	600.0	580.2	572.8
67.5°	543.0	540.5	525.6	513.3	505.8
70°	461.2	466.1	453.7	441.3	438.9
72.5°	384.3	389.3	384.3	376.9	371.9
75°	307.5	319.9	317.4	312.4	307.5
77.5°	235.5	250.4	250.4	247.9	245.5
80°	168.6	183.5	186.0	186.0	186.0
82.5°	106.6	121.5	128.9	128.9	128.9
85°	52.1	66.9	74.4	76.9	74.4
87.5°	17.4	24.8	27.3	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.38	19.01	17.75	19.32	19.64	16.81	18.44	17.17	18.75	19.06
	3H	19.05	20.52	19.43	20.85	21.21	18.55	20.02	18.93	20.35	20.71
	4H	19.64	21.03	20.04	21.37	21.75	19.21	20.59	19.60	20.94	21.31
	6H	20.03	21.31	20.44	21.68	22.07	19.69	20.97	20.10	21.34	21.73
	8H	20.12	21.35	20.55	21.74	22.14	19.84	21.07	20.27	21.46	21.86
	12H	20.17	21.34	20.60	21.72	22.15	19.94	21.11	20.37	21.49	21.92
4H	2H	17.93	19.32	18.33	19.66	20.04	17.48	18.86	17.87	19.21	19.58
	3H	19.83	20.99	20.24	21.39	21.79	19.43	20.59	19.84	20.99	21.39
	4H	20.56	21.61	20.99	22.02	22.46	20.21	21.26	20.64	21.67	22.11
	6H	21.07	21.99	21.53	22.43	22.89	20.82	21.74	21.27	22.18	22.63
	8H	21.21	22.07	21.67	22.51	22.97	21.02	21.87	21.48	22.32	22.78
	12H	21.28	22.05	21.76	22.53	23.00	21.15	21.92	21.63	22.40	22.87
8H	4H	20.84	21.70	21.30	22.14	22.60	20.53	21.39	20.99	21.83	22.30
	6H	21.47	22.18	21.96	22.67	23.14	21.26	21.97	21.75	22.46	22.93
	8H	21.67	22.31	22.18	22.81	23.30	21.52	22.16	22.03	22.67	23.15
	12H	21.80	22.36	22.30	22.85	23.41	21.73	22.29	22.23	22.78	23.34
12H	4H	20.87	21.64	21.35	22.11	22.58	20.57	21.33	21.04	21.81	22.28
	6H	21.52	22.16	22.02	22.66	23.15	21.31	21.95	21.82	22.46	22.94
	8H	21.77	22.33	22.28	22.83	23.39	21.63	22.20	22.14	22.69	23.25

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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