

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: P571995

Luminaire Tested: 22ID-55-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571995
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-55-L835-DBR
Description: 5500 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: 5535.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

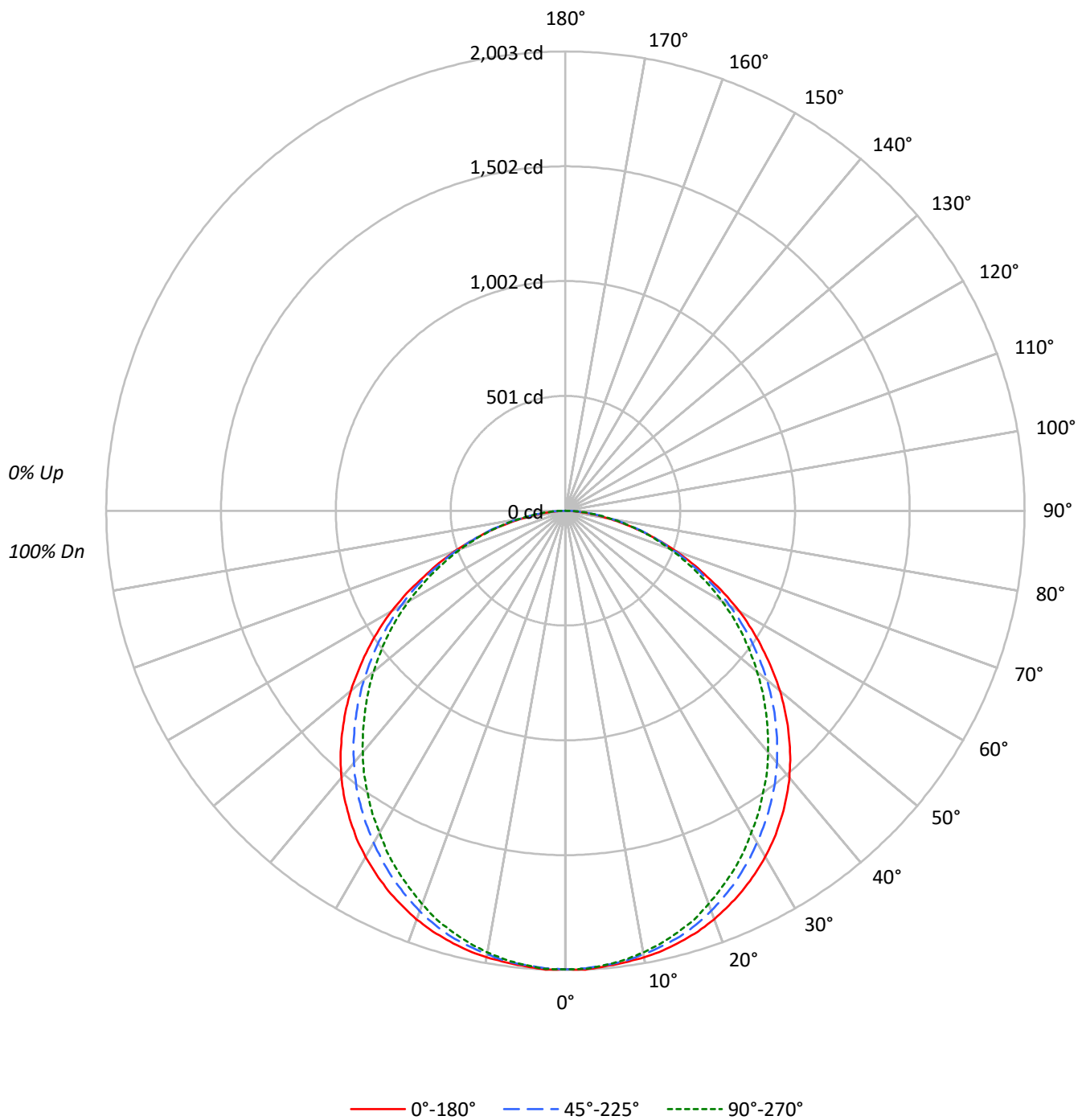
Input Watts (W): 45.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5383	5383	5383
5°	5389	5374	5374
10°	5406	5369	5347
15°	5421	5360	5299
20°	5431	5322	5228
25°	5429	5267	5145
30°	5418	5198	5037
35°	5388	5128	4940
40°	5339	5042	4832
45°	5245	4933	4705
50°	5118	4798	4570
55°	4929	4647	4430
60°	4715	4450	4245
65°	4344	4205	4014
70°	3994	3929	3800
75°	3518	3632	3518
80°	2876	3172	3172
85°	1769	2529	2529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	3.4
10°-20°	542.5	9.8
20°-30°	818.7	14.8
30°-40°	979.6	17.7
40°-50°	1003.2	18.1
50°-60°	886.9	16.0
60°-70°	655.2	11.8
70°-80°	366.1	6.6
80°-90°	93.6	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°	1550.5	28.0
0°-40°	2530.1	45.7
0°-60°	4420.1	79.9
0°-90°	5535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	1995	1992	1989	1987	1989	190
15°	1946	1938	1924	1908	1902	550
25°	1828	1812	1774	1744	1733	843
35°	1640	1616	1561	1517	1504	1026
45°	1378	1351	1296	1250	1236	1062
55°	1051	1032	991	955	944	939
65°	682	682	660	639	630	681
75°	338	352	349	344	338	360
85°	57	74	82	85	82	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2003.0	1997.6	1997.6	1997.6	2000.3
5°	1994.9	1992.1	1989.4	1986.7	1989.4
7.5°	1986.7	1983.9	1981.2	1973.0	1975.8
10°	1978.5	1973.0	1964.8	1956.7	1956.7
12.5°	1964.8	1956.7	1945.7	1934.8	1932.1
15°	1945.7	1937.6	1923.9	1907.5	1902.1
17.5°	1923.9	1913.0	1893.9	1874.8	1869.3
20°	1896.6	1885.7	1858.4	1833.9	1825.7
22.5°	1863.9	1850.2	1817.5	1790.2	1779.3
25°	1828.4	1812.0	1773.8	1743.8	1732.9
27.5°	1787.5	1768.4	1724.7	1691.9	1681.0
30°	1743.8	1722.0	1672.8	1637.4	1621.0
32.5°	1694.7	1670.1	1618.3	1577.3	1566.4
35°	1640.1	1615.5	1561.0	1517.3	1503.7
37.5°	1582.8	1555.5	1500.9	1454.5	1443.6
40°	1520.0	1492.7	1435.4	1386.3	1375.4
42.5°	1451.8	1421.8	1367.2	1320.8	1307.2
45°	1378.1	1350.8	1296.3	1249.9	1236.2
47.5°	1301.7	1277.1	1222.6	1178.9	1165.3
50°	1222.6	1198.0	1146.2	1102.5	1091.6
52.5°	1135.2	1116.1	1069.7	1026.1	1017.9
55°	1050.6	1031.5	990.6	955.1	944.2
57.5°	963.3	944.2	908.7	873.3	867.8
60°	876.0	859.6	826.9	799.6	788.7
62.5°	780.5	775.0	747.7	717.7	709.5
65°	682.2	682.2	660.4	638.6	630.4
67.5°	597.6	594.9	578.5	564.9	556.7
70°	507.6	513.0	499.4	485.8	483.0
72.5°	423.0	428.4	423.0	414.8	409.3
75°	338.4	352.0	349.3	343.8	338.4
77.5°	259.3	275.6	275.6	272.9	270.2
80°	185.6	201.9	204.7	204.7	204.7
82.5°	117.3	133.7	141.9	141.9	141.9
85°	57.3	73.7	81.9	84.6	81.9
87.5°	19.1	27.3	30.0	32.7	32.7
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	17.71	19.34	18.08	19.66	19.97	17.14	18.77	17.51	19.08	19.40
	3H	19.39	20.86	19.76	21.18	21.54	18.88	20.35	19.26	20.68	21.04
	4H	19.97	21.36	20.37	21.71	22.08	19.54	20.92	19.94	21.27	21.65
	6H	20.36	21.64	20.77	22.01	22.40	20.02	21.31	20.43	21.67	22.06
	8H	20.46	21.68	20.88	22.07	22.47	20.18	21.40	20.60	21.79	22.19
	12H	20.50	21.67	20.93	22.06	22.48	20.27	21.45	20.70	21.83	22.26
4H	2H	18.26	19.65	18.66	20.00	20.37	17.81	19.19	18.21	19.54	19.92
	3H	20.17	21.33	20.58	21.72	22.12	19.76	20.92	20.17	21.32	21.72
	4H	20.89	21.94	21.32	22.35	22.79	20.55	21.59	20.98	22.01	22.44
	6H	21.41	22.32	21.86	22.76	23.22	21.15	22.07	21.61	22.51	22.97
	8H	21.54	22.40	22.00	22.84	23.31	21.35	22.21	21.81	22.65	23.11
	12H	21.62	22.39	22.10	22.86	23.33	21.49	22.25	21.97	22.73	23.20
8H	4H	21.17	22.03	21.63	22.47	22.94	20.87	21.72	21.33	22.17	22.63
	6H	21.80	22.51	22.30	23.00	23.48	21.59	22.30	22.08	22.79	23.27
	8H	22.00	22.64	22.51	23.15	23.63	21.86	22.50	22.37	23.00	23.49
	12H	22.13	22.69	22.64	23.18	23.74	22.06	22.63	22.57	23.12	23.68
12H	4H	21.20	21.97	21.68	22.45	22.91	20.90	21.67	21.38	22.14	22.61
	6H	21.85	22.49	22.36	23.00	23.48	21.64	22.28	22.15	22.79	23.27
	8H	22.10	22.67	22.61	23.16	23.72	21.97	22.53	22.47	23.02	23.58

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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