

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: P571971

Luminaire Tested: 22ID-45-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571971
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-45-L850-DBR
Description: 4500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4813.0 lumens
Efficiency: N/A
Efficacy: 129.4 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

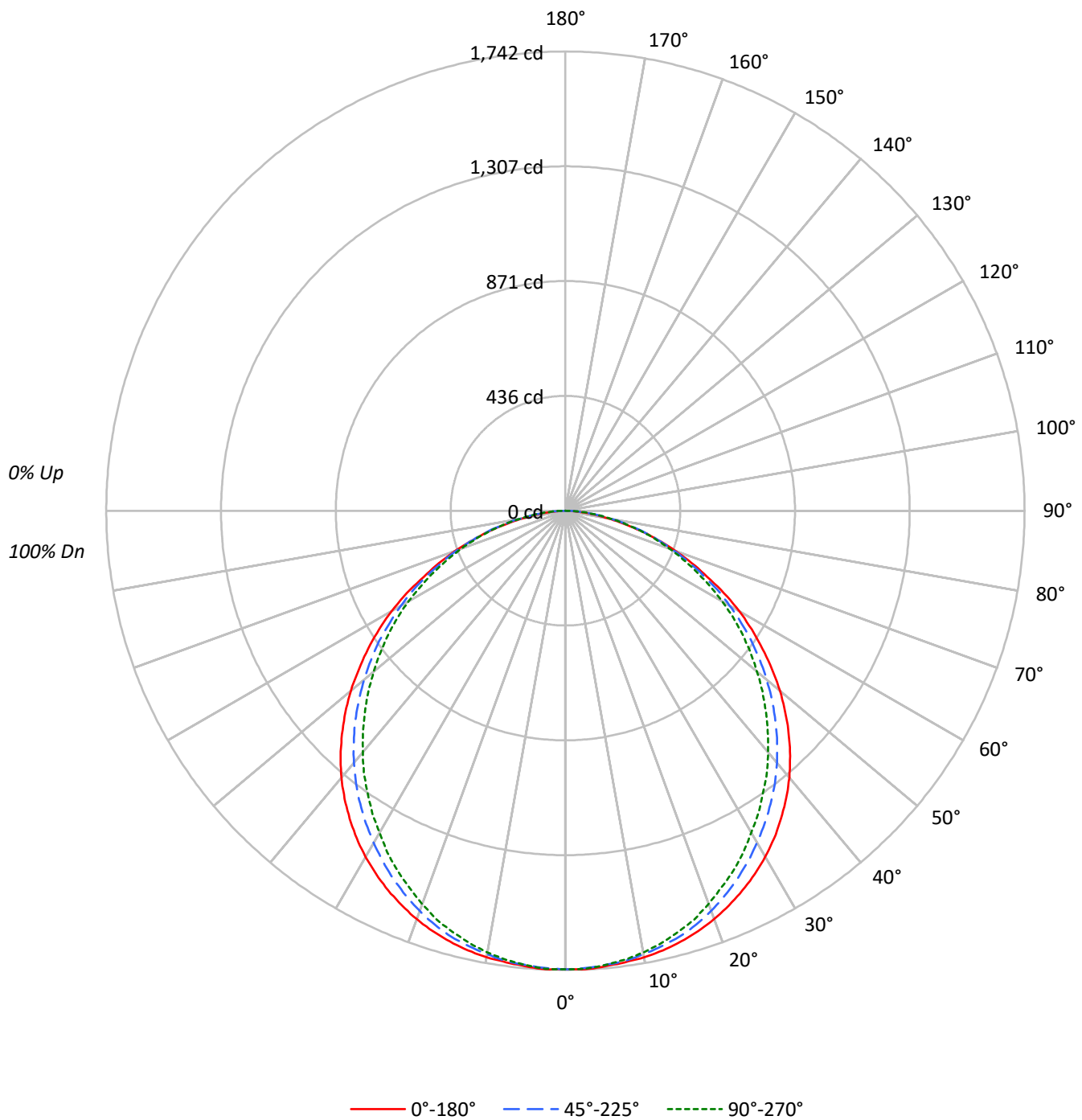
Input Watts (W): 37.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P571971

CATALOG NUMBER: 22ID-45-L850-DBR

Luminous Intensity Polar Plot



TEST NUMBER: P571971

CATALOG NUMBER: 22ID-45-L850-DBR

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°	4681	4681	4681
5°	4686	4673	4673
10°	4701	4668	4649
15°	4713	4661	4608
20°	4723	4628	4546
25°	4721	4580	4474
30°	4712	4520	4380
35°	4685	4459	4295
40°	4643	4385	4201
45°	4561	4290	4091
50°	4451	4173	3974
55°	4286	4041	3852
60°	4099	3870	3691
65°	3777	3657	3491
70°	3473	3417	3305
75°	3059	3158	3059
80°	2501	2758	2758
85°	1538	2198	2198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4561 cd/sqm

TEST NUMBER: P571971

CATALOG NUMBER: 22ID-45-L850-DBR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	3.4
10°-20°	471.7	9.8
20°-30°	711.9	14.8
30°-40°	851.8	17.7
40°-50°	872.3	18.1
50°-60°	771.2	16.0
60°-70°	569.7	11.8
70°-80°	318.4	6.6
80°-90°	81.4	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°	1348.2	28.0
0°-40°	2200.0	45.7
0°-60°	3843.6	79.9
0°-90°	4813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1739	1739	1739	1739	1739	
5°	1735	1732	1730	1728	1730	165
15°	1692	1685	1673	1659	1654	478
25°	1590	1576	1542	1516	1507	733
35°	1426	1405	1357	1319	1308	892
45°	1198	1175	1127	1087	1075	924
55°	914	897	861	830	821	816
65°	593	593	574	555	548	592
75°	294	306	304	299	294	313
85°	50	64	71	74	71	68
90°	0	0	0	0	0	

TEST NUMBER: P571971

CATALOG NUMBER: 22ID-45-L850-DBR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1739.4	1739.4	1739.4	1739.4	1739.4
2.5°	1741.8	1737.0	1737.0	1737.0	1739.4
5°	1734.6	1732.3	1729.9	1727.5	1729.9
7.5°	1727.5	1725.2	1722.8	1715.7	1718.0
10°	1720.4	1715.7	1708.5	1701.4	1701.4
12.5°	1708.5	1701.4	1691.9	1682.4	1680.1
15°	1691.9	1684.8	1672.9	1658.7	1654.0
17.5°	1672.9	1663.5	1646.8	1630.2	1625.5
20°	1649.2	1639.7	1616.0	1594.6	1587.5
22.5°	1620.7	1608.9	1580.4	1556.7	1547.2
25°	1589.9	1575.7	1542.4	1516.3	1506.8
27.5°	1554.3	1537.7	1499.7	1471.2	1461.8
30°	1516.3	1497.3	1454.6	1423.8	1409.5
32.5°	1473.6	1452.3	1407.2	1371.6	1362.1
35°	1426.2	1404.8	1357.3	1319.4	1307.5
37.5°	1376.3	1352.6	1305.1	1264.8	1255.3
40°	1321.7	1298.0	1248.2	1205.5	1196.0
42.5°	1262.4	1236.3	1188.9	1148.5	1136.7
45°	1198.4	1174.6	1127.2	1086.8	1075.0
47.5°	1131.9	1110.6	1063.1	1025.1	1013.3
50°	1063.1	1041.7	996.7	958.7	949.2
52.5°	987.2	970.5	930.2	892.2	885.1
55°	913.6	897.0	861.4	830.5	821.1
57.5°	837.7	821.1	790.2	759.4	754.6
60°	761.7	747.5	719.0	695.3	685.8
62.5°	678.7	673.9	650.2	624.1	617.0
65°	593.2	593.2	574.3	555.3	548.2
67.5°	519.7	517.3	503.1	491.2	484.1
70°	441.4	446.1	434.3	422.4	420.0
72.5°	367.8	372.6	367.8	360.7	355.9
75°	294.2	306.1	303.7	299.0	294.2
77.5°	225.4	239.7	239.7	237.3	234.9
80°	161.4	175.6	178.0	178.0	178.0
82.5°	102.0	116.3	123.4	123.4	123.4
85°	49.8	64.1	71.2	73.6	71.2
87.5°	16.6	23.7	26.1	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P571971
CATALOG NUMBER: 22ID-45-L850-DBR

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	17.23	18.86	17.59	19.17	19.49	16.66	18.28	17.02	18.60	18.91
	3H	18.90	20.37	19.28	20.70	21.06	18.40	19.87	18.77	20.20	20.56
	4H	19.49	20.87	19.89	21.22	21.60	19.05	20.44	19.45	20.79	21.16
	6H	19.88	21.16	20.29	21.52	21.91	19.54	20.82	19.95	21.19	21.58
	8H	19.97	21.20	20.40	21.59	21.99	19.69	20.92	20.12	21.31	21.70
	12H	20.01	21.19	20.44	21.57	22.00	19.79	20.96	20.21	21.34	21.77
4H	2H	17.78	19.16	18.18	19.51	19.89	17.32	18.71	17.72	19.06	19.43
	3H	19.68	20.84	20.09	21.24	21.64	19.28	20.44	19.69	20.84	21.23
	4H	20.41	21.45	20.84	21.87	22.30	20.06	21.11	20.49	21.52	21.96
	6H	20.92	21.84	21.38	22.28	22.73	20.67	21.58	21.12	22.02	22.48
	8H	21.06	21.92	21.52	22.36	22.82	20.86	21.72	21.33	22.16	22.63
	12H	21.13	21.90	21.61	22.38	22.85	21.00	21.77	21.48	22.24	22.71
8H	4H	20.69	21.54	21.15	21.99	22.45	20.38	21.24	20.84	21.68	22.15
	6H	21.32	22.03	21.81	22.52	22.99	21.10	21.82	21.60	22.30	22.78
	8H	21.52	22.16	22.03	22.66	23.15	21.37	22.01	21.88	22.52	23.00
	12H	21.64	22.21	22.15	22.70	23.26	21.57	22.14	22.08	22.63	23.19
12H	4H	20.71	21.48	21.19	21.96	22.43	20.41	21.18	20.89	21.66	22.13
	6H	21.36	22.00	21.87	22.51	23.00	21.16	21.80	21.67	22.30	22.79
	8H	21.62	22.18	22.12	22.67	23.23	21.48	22.04	21.99	22.54	23.10