

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: CORELITE

Report Number: P738210

Luminaire Tested: **22PT-45-PR1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506224)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PR1-L850
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

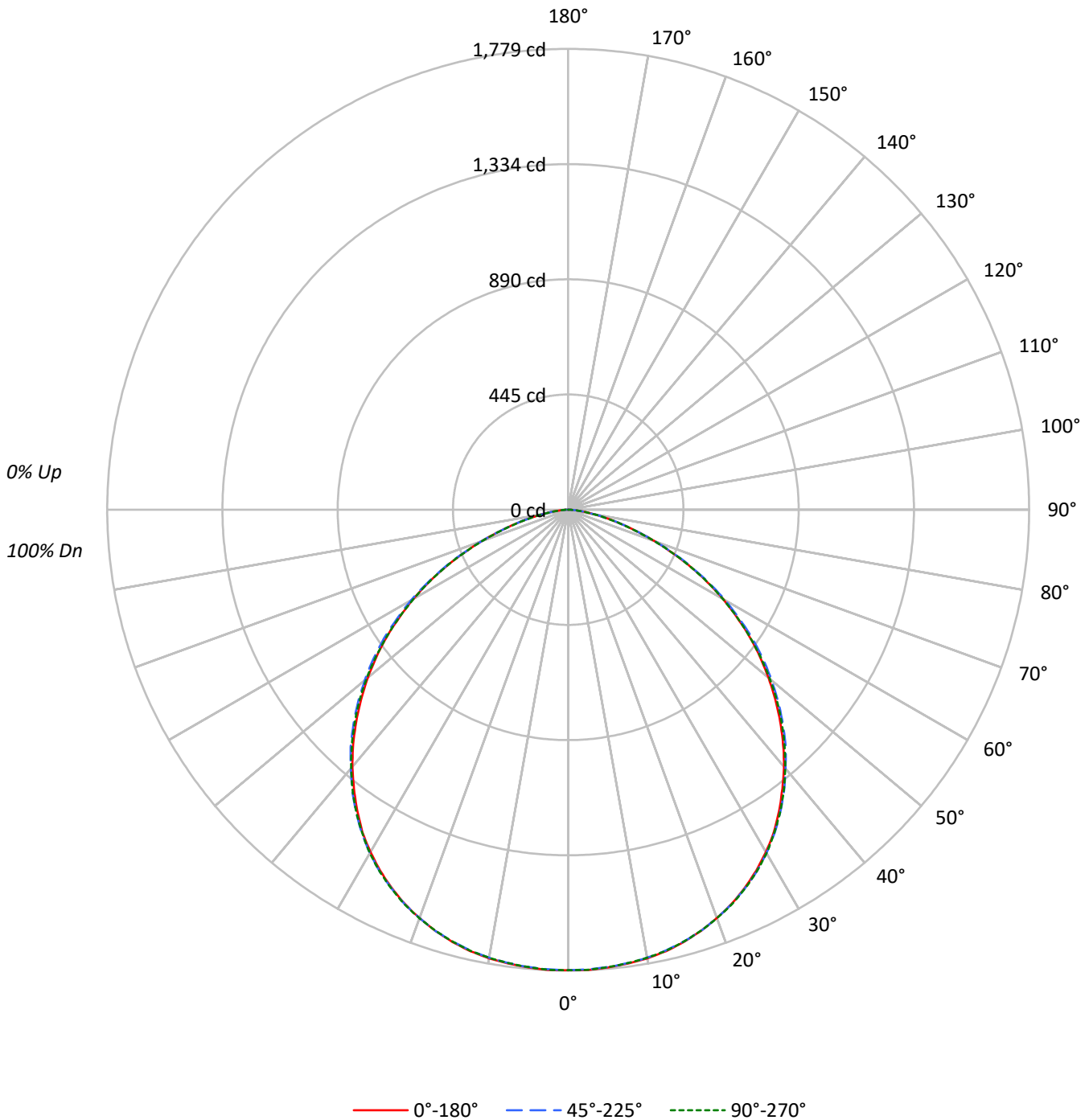
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4750.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 35.3
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	85
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	71	58	50	43	70	58	49	43	56	48	43		54	48	43		52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	36
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	31		41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5208	5208	5208
5°	5216	5213	5213
10°	5233	5225	5225
15°	5239	5234	5235
20°	5232	5230	5234
25°	5210	5215	5219
30°	5162	5178	5181
35°	5075	5103	5101
40°	4957	4991	4984
45°	4794	4856	4831
50°	4600	4670	4632
55°	4366	4436	4372
60°	4048	4103	4034
65°	3611	3648	3607
70°	3038	3038	3018
75°	2381	2381	2354
80°	1743	1723	1714
85°	1136	1136	1160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	3.6
10°-20°	487.1	10.3
20°-30°	743.1	15.6
30°-40°	890.5	18.7
40°-50°	899.4	18.9
50°-60°	769.5	16.2
60°-70°	518.9	10.9
70°-80°	228.9	4.8
80°-90°	43.9	0.9
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°	1398.8	29.4
0°-40°	2289.4	48.2
0°-60°	3958.2	83.3
0°-90°	4750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1773	1771	1772	1771	1772	169
15°	1727	1726	1725	1725	1726	487
25°	1611	1613	1613	1613	1614	742
35°	1419	1427	1427	1425	1426	887
45°	1157	1166	1172	1170	1166	892
55°	855	862	868	867	856	761
65°	521	525	526	525	520	515
75°	210	211	210	211	208	229
85°	34	34	34	34	34	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.6	1777.6	1777.6	1777.6	1777.6
2.5°	1778.8	1776.4	1775.8	1775.3	1777.6
5°	1773.4	1771.1	1772.3	1771.1	1772.3
7.5°	1766.9	1764.6	1765.2	1763.9	1765.2
10°	1758.7	1756.2	1756.2	1755.0	1756.2
12.5°	1745.5	1743.8	1743.1	1742.0	1743.8
15°	1727.1	1726.5	1725.4	1724.7	1725.9
17.5°	1704.6	1703.4	1704.6	1702.8	1703.9
20°	1677.8	1678.5	1677.3	1677.8	1678.5
22.5°	1647.5	1647.5	1648.2	1648.2	1649.4
25°	1611.4	1613.0	1613.0	1613.0	1614.4
27.5°	1571.0	1573.3	1575.0	1573.9	1575.0
30°	1525.8	1530.0	1530.5	1530.0	1531.2
32.5°	1477.1	1480.1	1481.8	1480.6	1479.4
35°	1418.8	1427.2	1426.7	1425.3	1426.0
37.5°	1357.7	1366.1	1368.9	1366.6	1367.2
40°	1295.9	1303.1	1304.8	1305.5	1303.1
42.5°	1227.6	1236.0	1242.5	1239.5	1236.0
45°	1156.9	1165.8	1171.8	1170.0	1165.8
47.5°	1083.9	1092.2	1100.5	1097.5	1093.5
50°	1009.1	1017.3	1024.5	1023.3	1016.1
52.5°	932.4	942.0	948.5	946.2	936.6
55°	854.7	862.4	868.3	867.1	855.9
57.5°	770.4	780.4	783.4	781.6	773.4
60°	690.7	697.4	700.2	697.9	688.3
62.5°	605.8	611.1	613.5	613.0	606.4
65°	520.9	525.1	526.2	525.1	520.2
67.5°	433.6	439.5	440.2	440.2	435.3
70°	354.6	356.3	354.6	359.3	352.3
72.5°	277.9	279.1	277.9	277.9	274.9
75°	210.3	210.8	210.3	210.8	207.9
77.5°	152.0	153.2	150.9	152.7	149.7
80°	103.3	103.3	102.1	102.8	101.6
82.5°	64.1	65.3	63.6	63.6	63.0
85°	33.8	33.8	33.8	34.5	34.5
87.5°	11.9	11.9	12.4	12.4	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)