

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: P738349

Luminaire Tested: **22PT-45-PW1-L940**

Issue Date: 2/8/2024



**Test Information**

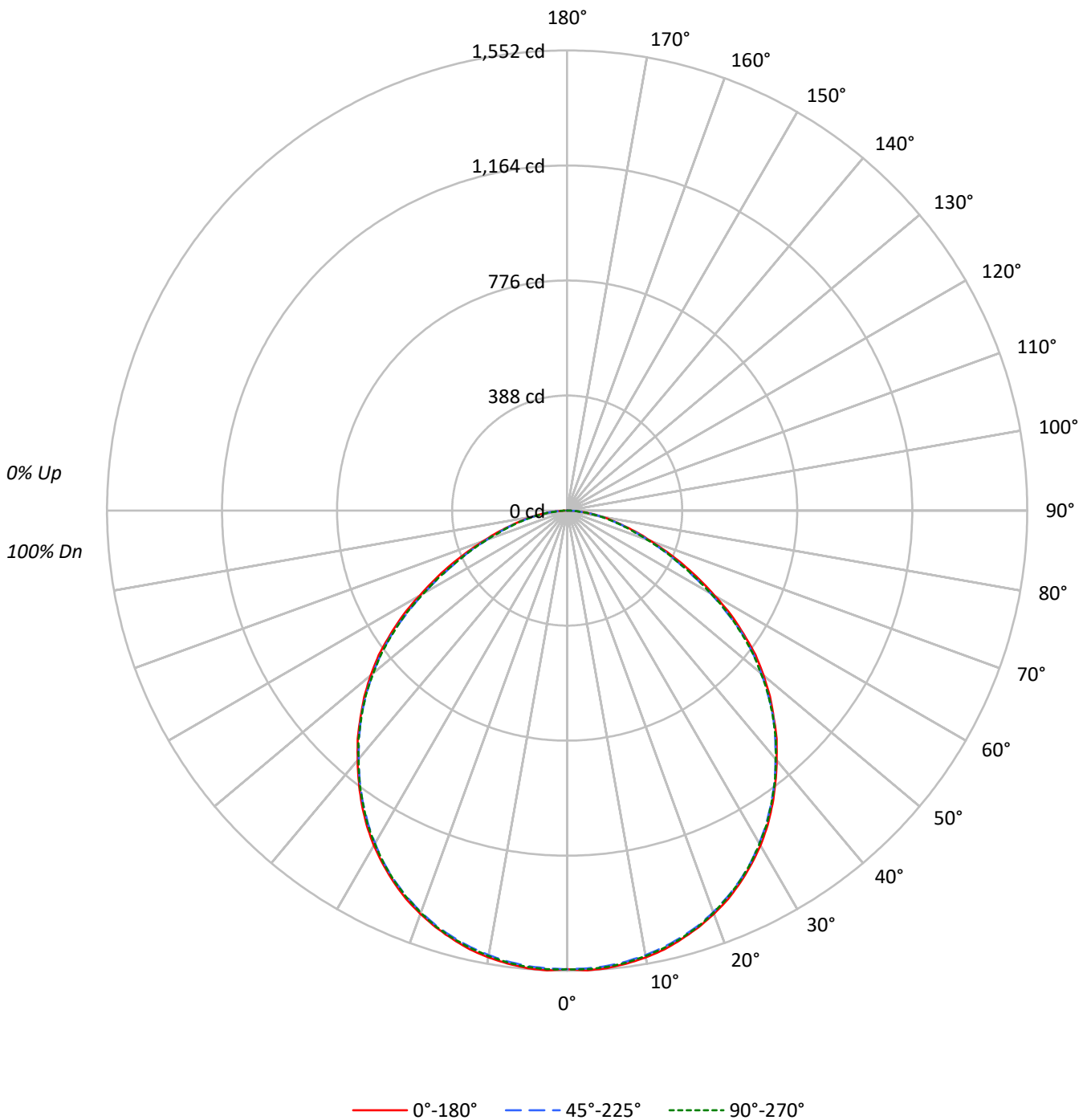
Test Method: LM-79-08  
Report Number: P738349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-45-PW1-L940  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4029.0 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.34  
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<sub>in</sub>): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	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	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	4533	4533	4533
5°	4555	4535	4544
10°	4552	4530	4539
15°	4537	4517	4528
20°	4513	4494	4501
25°	4473	4453	4459
30°	4414	4385	4392
35°	4320	4296	4299
40°	4205	4183	4186
45°	4083	4068	4063
50°	3942	3898	3888
55°	3714	3665	3645
60°	3371	3274	3282
65°	2998	2858	2858
70°	2569	2476	2457
75°	2229	2179	2129
80°	2005	1924	1886
85°	1594	1607	1520



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.7	3.6
10°-20°	420.7	10.4
20°-30°	634.6	15.8
30°-40°	751.7	18.7
40°-50°	756.7	18.8
50°-60°	639.8	15.9
60°-70°	416.0	10.3
70°-80°	207.0	5.1
80°-90°	55.8	1.4
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°	1202.0	29.8
0°-40°	1953.7	48.5
0°-60°	3350.1	83.2
0°-90°	4029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4029.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1549	1543	1542	1541	1545	147
15°	1496	1491	1489	1489	1493	422
25°	1384	1379	1377	1376	1379	637
35°	1208	1202	1201	1201	1202	755
45°	985	982	982	980	980	760
55°	727	721	717	714	714	649
65°	432	420	412	409	412	429
75°	197	197	192	187	188	213
85°	47	48	48	48	45	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1547.1	1547.1	1547.1	1547.1	1547.1
2.5°	1552.3	1547.1	1545.3	1544.4	1548.4
5°	1548.8	1543.1	1541.8	1540.9	1544.9
7.5°	1540.9	1535.7	1533.9	1533.5	1537.4
10°	1530.0	1524.7	1522.5	1521.6	1525.6
12.5°	1515.9	1510.2	1508.0	1507.2	1510.7
15°	1495.8	1490.9	1489.2	1488.8	1492.7
17.5°	1473.8	1469.0	1468.1	1466.8	1470.8
20°	1447.5	1442.7	1441.4	1439.6	1443.6
22.5°	1418.6	1412.9	1411.1	1409.8	1412.9
25°	1383.5	1378.7	1377.4	1376.1	1379.1
27.5°	1344.9	1341.4	1339.7	1338.3	1340.1
30°	1304.6	1298.4	1296.2	1295.4	1298.0
32.5°	1258.1	1253.7	1250.6	1250.2	1253.3
35°	1207.7	1202.4	1201.1	1201.1	1202.0
37.5°	1154.2	1151.5	1149.3	1148.0	1150.7
40°	1099.4	1098.5	1093.7	1093.2	1094.5
42.5°	1045.4	1041.9	1038.4	1040.2	1041.0
45°	985.3	981.8	981.8	980.5	980.5
47.5°	927.5	923.9	919.1	919.6	920.4
50°	864.7	860.4	855.1	858.2	852.9
52.5°	800.7	792.8	788.9	788.9	788.4
55°	727.1	720.9	717.4	714.3	713.5
57.5°	656.0	646.8	638.0	638.9	642.0
60°	575.3	570.9	558.7	559.5	560.0
62.5°	502.5	494.2	481.5	481.5	485.9
65°	432.4	420.5	412.2	409.1	412.2
67.5°	363.5	356.9	349.9	345.1	349.5
70°	299.9	296.4	289.0	284.2	286.8
72.5°	248.2	243.4	237.2	234.6	232.0
75°	196.9	196.9	192.5	187.2	188.1
77.5°	155.2	153.9	150.8	148.7	148.7
80°	118.8	117.5	114.0	113.1	111.8
82.5°	82.0	82.4	80.7	79.4	77.6
85°	47.4	48.2	47.8	47.8	45.2
87.5°	20.2	18.4	19.7	19.3	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)