

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: P738588

Luminaire Tested: **24PT-50-PW1-L935**

Issue Date: 2/8/2024



**Test Information**

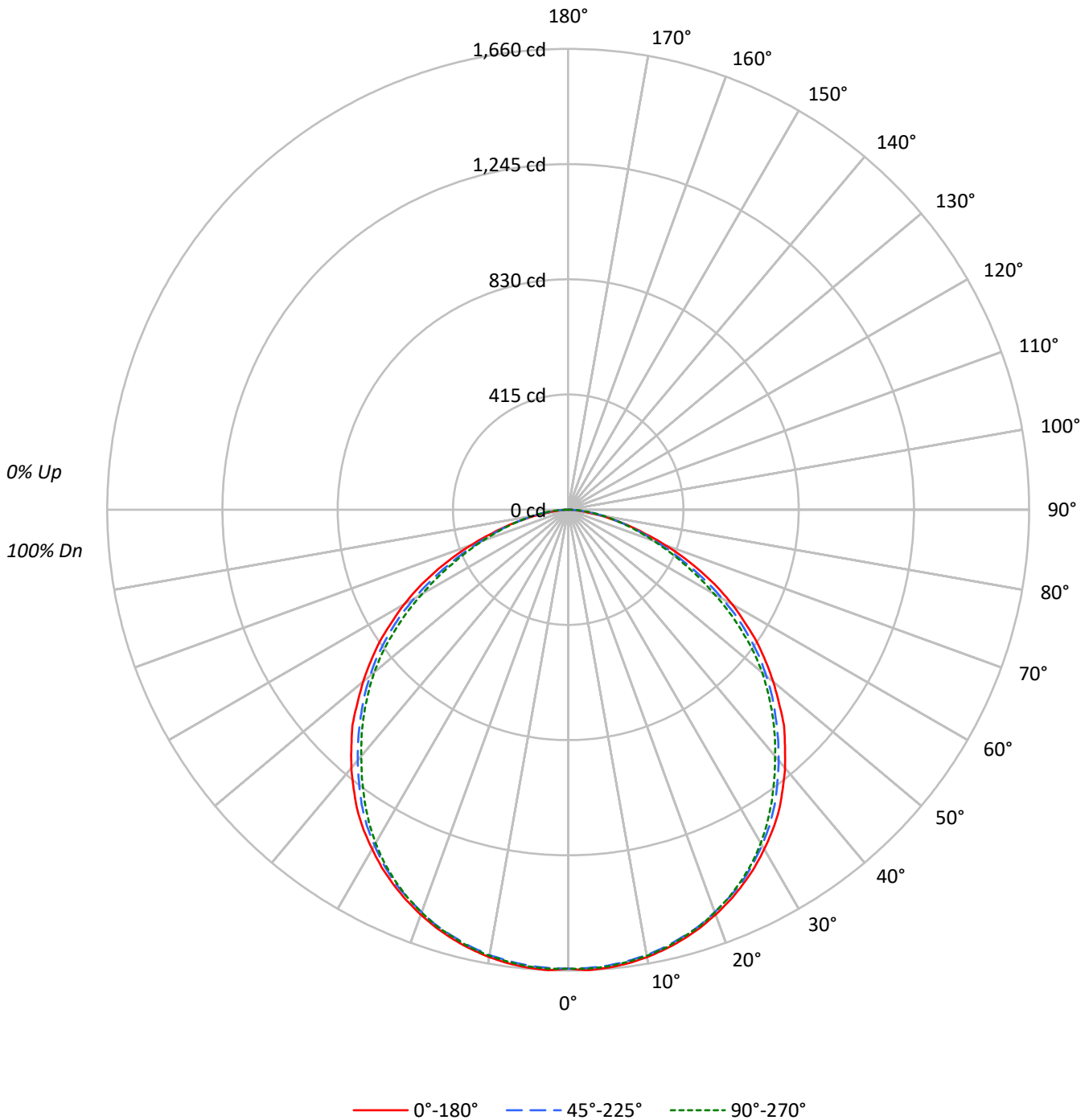
Test Method: LM-79-08  
Report Number: P738588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PW1-L935  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4409.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41  
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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2371	2371	2371
5°	2384	2372	2377
10°	2382	2371	2376
15°	2378	2365	2368
20°	2368	2355	2356
25°	2356	2342	2333
30°	2337	2310	2296
35°	2316	2269	2238
40°	2274	2207	2170
45°	2229	2142	2107
50°	2150	2077	2033
55°	2071	1983	1911
60°	1958	1837	1742
65°	1792	1636	1552
70°	1553	1419	1367
75°	1271	1224	1208
80°	927	1046	1078
85°	622	874	928



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.8	3.6
10°-20°	450.2	10.2
20°-30°	681.4	15.5
30°-40°	810.8	18.4
40°-50°	818.9	18.6
50°-60°	708.6	16.1
60°-70°	484.1	11.0
70°-80°	238.6	5.4
80°-90°	59.6	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°	1288.4	29.2
0°-40°	2099.2	47.6
0°-60°	3626.7	82.3
0°-90°	4409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1656	1650	1648	1647	1652	157
15°	1602	1597	1593	1592	1595	452
25°	1489	1483	1480	1475	1475	686
35°	1323	1312	1296	1282	1278	826
45°	1099	1080	1056	1044	1039	844
55°	828	817	793	776	764	738
65°	528	508	482	467	458	522
75°	230	223	221	219	218	245
85°	38	47	53	55	56	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1653.5	1653.5	1653.5	1653.5	1653.5
2.5°	1660.2	1654.0	1652.1	1650.7	1655.0
5°	1656.4	1650.2	1648.3	1646.9	1651.6
7.5°	1648.3	1642.1	1640.2	1638.7	1642.6
10°	1636.3	1630.6	1628.7	1627.3	1631.6
12.5°	1621.0	1615.8	1613.4	1611.5	1616.3
15°	1601.9	1596.7	1593.3	1592.4	1595.2
17.5°	1579.0	1573.7	1571.3	1569.9	1573.2
20°	1552.2	1546.5	1543.1	1541.2	1544.1
22.5°	1522.6	1516.8	1512.5	1510.6	1511.6
25°	1489.1	1483.4	1480.5	1474.8	1474.8
27.5°	1453.2	1446.6	1439.4	1433.2	1433.6
30°	1411.7	1404.0	1395.4	1387.3	1386.8
32.5°	1369.6	1360.0	1349.5	1338.5	1335.2
35°	1323.2	1312.2	1296.4	1282.1	1278.3
37.5°	1268.7	1258.7	1237.6	1225.7	1219.5
40°	1214.7	1200.4	1178.9	1165.0	1159.3
42.5°	1155.4	1141.6	1118.6	1105.7	1100.9
45°	1099.0	1080.4	1056.5	1044.5	1039.3
47.5°	1028.7	1013.4	996.7	982.9	976.2
50°	963.7	951.3	931.2	915.9	911.6
52.5°	895.8	885.3	866.2	846.1	841.4
55°	828.4	817.0	793.1	776.3	764.4
57.5°	752.4	742.4	719.9	698.4	687.9
60°	682.6	665.4	640.6	617.2	607.6
62.5°	606.6	589.9	561.2	537.3	532.1
65°	528.2	508.2	482.3	466.6	457.5
67.5°	448.9	429.3	407.8	397.7	392.0
70°	370.5	354.7	338.5	331.3	326.0
72.5°	295.0	285.9	276.8	273.9	269.1
75°	229.5	222.8	220.9	219.4	218.0
77.5°	165.4	168.7	170.7	172.6	170.7
80°	112.3	119.5	126.7	130.5	130.5
82.5°	69.3	81.7	88.0	91.8	91.3
85°	37.8	46.8	53.1	55.0	56.4
87.5°	15.3	19.1	21.5	23.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)