

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: P738581

Luminaire Tested: **24PT-50-PR1-L940**

Issue Date: 2/8/2024



**Test Information**

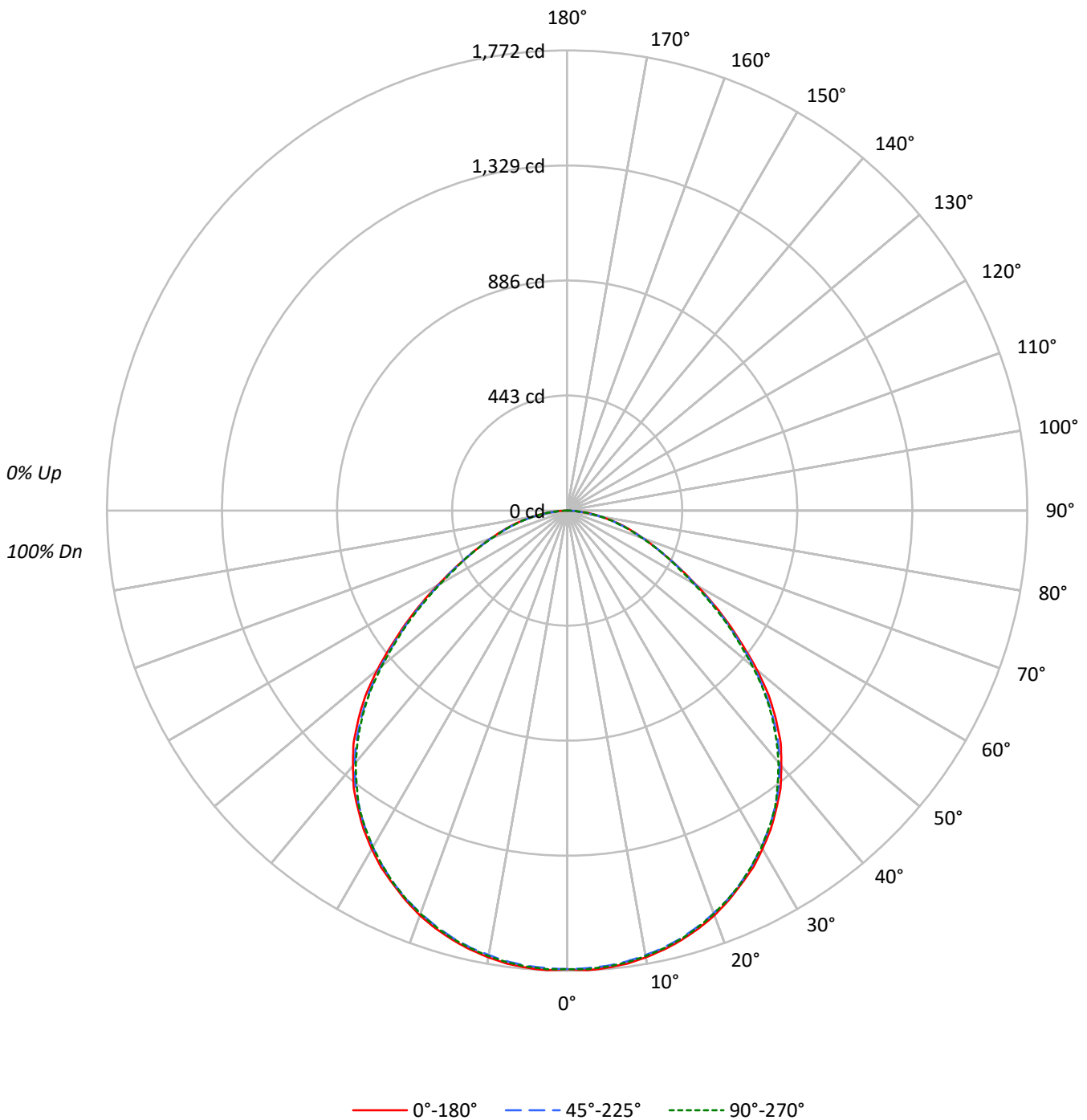
Test Method: LM-79-08  
Report Number: P738581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PR1-L940  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND RIPPLE LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4497.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

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

	0°	45°	90°
0°	2532	2532	2532
5°	2544	2533	2537
10°	2543	2531	2536
15°	2539	2528	2533
20°	2531	2518	2521
25°	2510	2503	2504
30°	2491	2477	2477
35°	2457	2442	2445
40°	2401	2381	2370
45°	2305	2268	2256
50°	2128	2097	2077
55°	1894	1867	1855
60°	1651	1633	1616
65°	1447	1448	1440
70°	1302	1298	1279
75°	1213	1177	1180
80°	1083	1063	1063
85°	836	860	828



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.5	3.7
10°-20°	481.0	10.7
20°-30°	729.2	16.2
30°-40°	872.2	19.4
40°-50°	861.1	19.1
50°-60°	670.3	14.9
60°-70°	425.5	9.5
70°-80°	228.4	5.1
80°-90°	61.9	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°	1377.7	30.6
0°-40°	2249.8	50.0
0°-60°	3781.2	84.1
0°-90°	4497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1767	1762	1760	1759	1763	168
15°	1711	1705	1703	1701	1706	483
25°	1587	1584	1582	1579	1583	732
35°	1404	1400	1395	1391	1397	878
45°	1137	1129	1118	1113	1113	873
55°	758	754	747	742	742	678
65°	426	428	427	422	424	428
75°	219	215	212	212	213	231
85°	51	52	52	52	50	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1765.8	1765.8	1765.8	1765.8	1765.8
2.5°	1771.7	1765.8	1763.8	1762.8	1767.3
5°	1767.3	1761.8	1759.9	1758.9	1762.8
7.5°	1759.9	1753.5	1751.5	1750.5	1754.9
10°	1746.6	1740.6	1738.2	1738.2	1742.1
12.5°	1730.8	1725.9	1723.4	1721.4	1725.9
15°	1710.6	1704.7	1703.2	1701.2	1706.1
17.5°	1686.4	1680.5	1678.5	1677.5	1681.0
20°	1658.8	1651.4	1650.4	1649.9	1651.9
22.5°	1624.8	1620.9	1618.9	1617.9	1619.4
25°	1586.8	1583.9	1581.9	1579.0	1582.9
27.5°	1549.9	1545.9	1541.0	1538.5	1541.0
30°	1504.5	1499.6	1496.1	1495.1	1496.1
32.5°	1457.7	1452.8	1448.3	1447.8	1447.3
35°	1403.5	1400.5	1395.1	1390.6	1396.6
37.5°	1349.7	1342.8	1337.9	1332.5	1331.0
40°	1282.7	1280.2	1271.8	1266.9	1266.4
42.5°	1217.6	1206.3	1200.4	1196.9	1191.5
45°	1136.8	1128.9	1118.5	1113.1	1112.6
47.5°	1052.5	1042.6	1032.8	1025.4	1027.3
50°	953.9	949.4	940.1	933.7	931.2
52.5°	852.3	851.3	841.5	837.5	833.1
55°	757.7	753.7	746.8	741.9	741.9
57.5°	664.5	661.1	657.6	648.2	648.2
60°	575.8	575.3	569.4	563.9	563.5
62.5°	496.4	499.4	493.9	488.5	485.6
65°	426.4	427.9	426.9	421.5	424.4
67.5°	364.8	365.3	363.3	360.4	362.3
70°	310.6	313.0	309.6	307.6	305.1
72.5°	263.2	262.3	259.3	260.8	257.3
75°	218.9	215.4	212.5	212.0	213.0
77.5°	174.5	173.5	171.1	171.1	169.6
80°	131.1	130.1	128.7	129.2	128.7
82.5°	93.2	90.7	88.7	89.7	90.2
85°	50.8	51.8	52.3	52.3	50.3
87.5°	20.7	20.2	20.7	21.7	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)