

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: P738589

Luminaire Tested: **24PT-50-PW1-L940**

Issue Date: 2/8/2024



**Test Information**

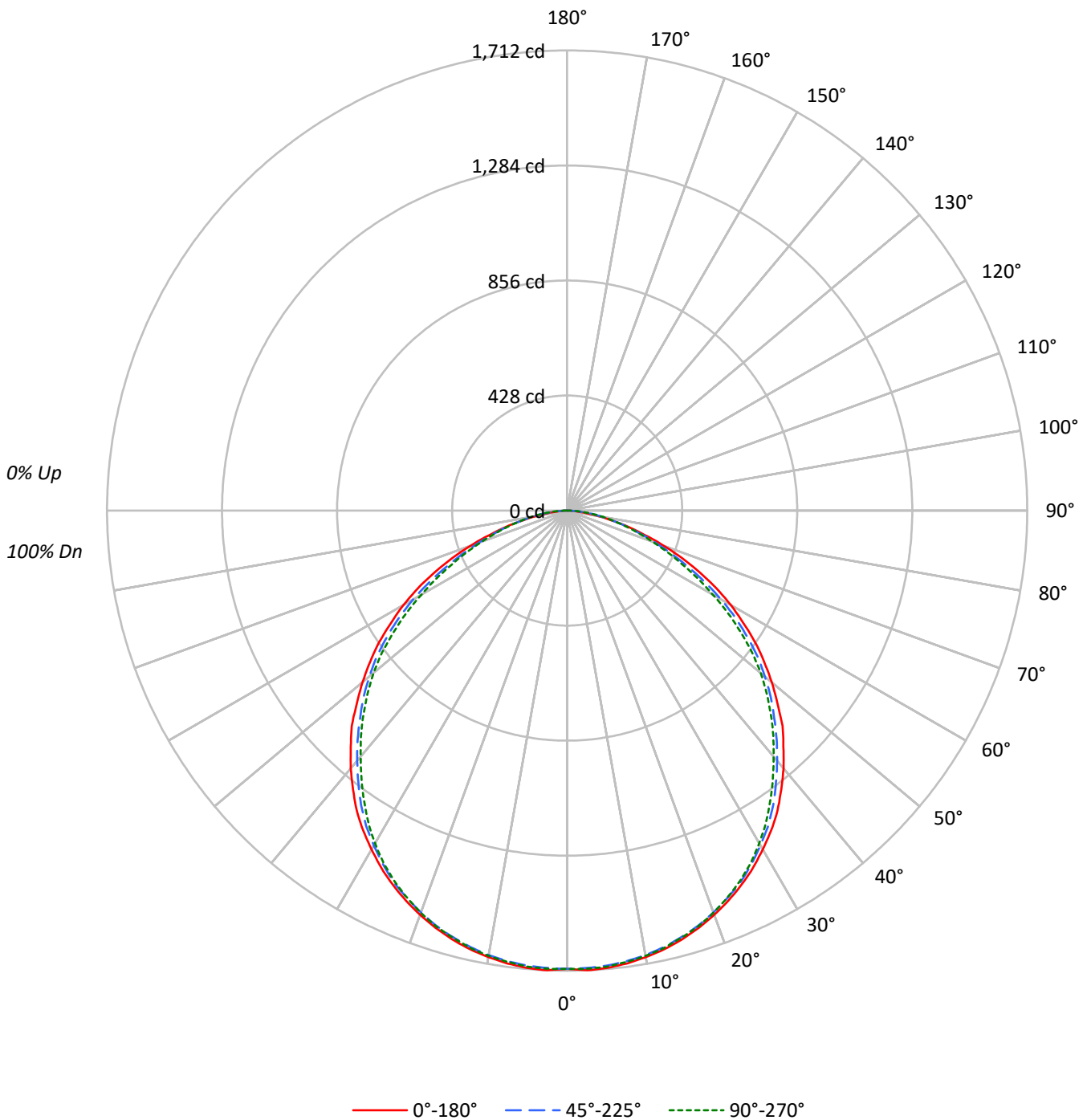
Test Method: LM-79-08  
Report Number: P738589  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PW1-L940  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4546.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 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

TEST NUMBER: P738589  
CATALOG NUMBER: 24PT-50-PW1-L940

### 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°	2445	2445	2445
5°	2458	2446	2451
10°	2457	2445	2449
15°	2452	2439	2442
20°	2442	2428	2429
25°	2429	2415	2406
30°	2410	2382	2367
35°	2388	2340	2307
40°	2344	2275	2237
45°	2298	2209	2173
50°	2217	2142	2097
55°	2135	2044	1970
60°	2019	1894	1797
65°	1848	1687	1600
70°	1601	1463	1409
75°	1311	1261	1245
80°	956	1078	1111
85°	640	900	957



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.7	3.6
10°-20°	464.2	10.2
20°-30°	702.6	15.5
30°-40°	835.9	18.4
40°-50°	844.4	18.6
50°-60°	730.6	16.1
60°-70°	499.1	11.0
70°-80°	246.0	5.4
80°-90°	61.5	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°	1328.5	29.2
0°-40°	2164.4	47.6
0°-60°	3739.4	82.3
0°-90°	4546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1708	1702	1700	1698	1703	162
15°	1652	1646	1643	1642	1645	466
25°	1535	1530	1526	1521	1521	708
35°	1364	1353	1337	1322	1318	852
45°	1133	1114	1089	1077	1072	870
55°	854	842	818	800	788	761
65°	545	524	497	481	472	538
75°	237	230	228	226	225	253
85°	39	48	55	57	58	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1704.9	1704.9	1704.9	1704.9	1704.9
2.5°	1711.8	1705.4	1703.4	1702.0	1706.4
5°	1707.9	1701.5	1699.5	1698.0	1703.0
7.5°	1699.5	1693.1	1691.1	1689.6	1693.6
10°	1687.2	1681.3	1679.3	1677.8	1682.3
12.5°	1671.4	1666.0	1663.5	1661.6	1666.5
15°	1651.7	1646.3	1642.8	1641.8	1644.8
17.5°	1628.0	1622.6	1620.1	1618.7	1622.1
20°	1600.4	1594.5	1591.1	1589.1	1592.1
22.5°	1569.9	1564.0	1559.5	1557.5	1558.5
25°	1535.4	1529.5	1526.5	1520.6	1520.6
27.5°	1498.4	1491.5	1484.1	1477.7	1478.2
30°	1455.5	1447.6	1438.8	1430.4	1429.9
32.5°	1412.1	1402.3	1391.4	1380.1	1376.7
35°	1364.3	1353.0	1336.7	1321.9	1318.0
37.5°	1308.1	1297.8	1276.1	1263.8	1257.4
40°	1252.4	1237.7	1215.5	1201.2	1195.3
42.5°	1191.3	1177.0	1153.4	1140.1	1135.1
45°	1133.2	1113.9	1089.3	1077.0	1071.6
47.5°	1060.7	1044.9	1027.7	1013.4	1006.5
50°	993.7	980.9	960.2	944.4	940.0
52.5°	923.7	912.8	893.1	872.4	867.5
55°	854.2	842.4	817.7	800.5	788.1
57.5°	775.8	765.5	742.3	720.1	709.3
60°	703.9	686.1	660.5	636.3	626.5
62.5°	625.5	608.2	578.7	554.0	548.6
65°	544.6	523.9	497.3	481.1	471.7
67.5°	462.8	442.6	420.4	410.1	404.2
70°	382.0	365.7	349.0	341.6	336.2
72.5°	304.1	294.8	285.4	282.4	277.5
75°	236.6	229.7	227.7	226.2	224.8
77.5°	170.5	174.0	176.0	177.9	176.0
80°	115.8	123.2	130.6	134.6	134.6
82.5°	71.5	84.3	90.7	94.6	94.1
85°	38.9	48.3	54.7	56.7	58.2
87.5°	15.8	19.7	22.2	24.2	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)