

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: P738586

Luminaire Tested: **24PT-50-PW1-L850**

Issue Date: 2/8/2024



**Test Information**

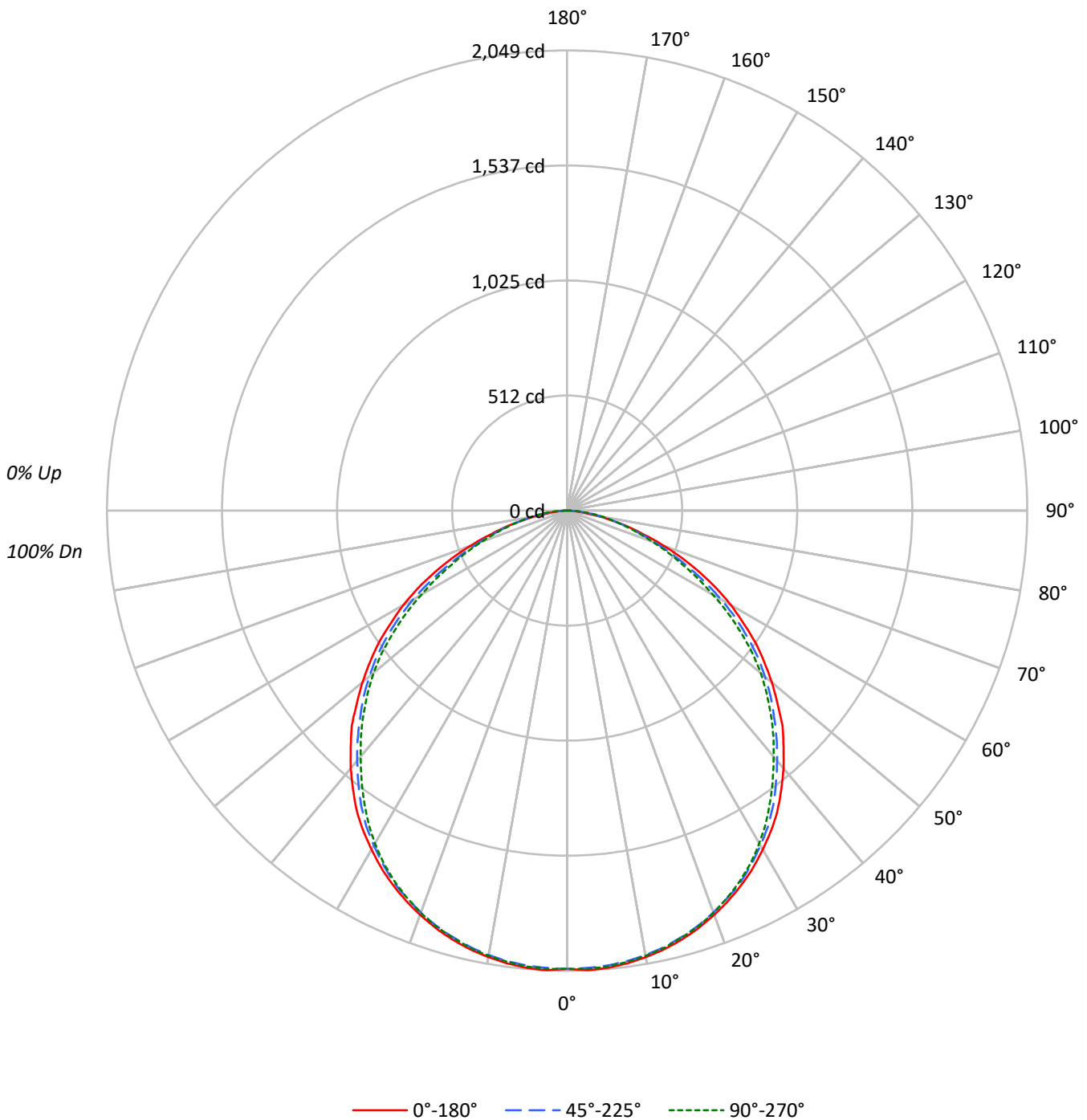
Test Method: LM-79-08  
Report Number: P738586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PW1-L850  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5441.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 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°	2926	2926	2926
5°	2942	2928	2934
10°	2940	2926	2931
15°	2935	2919	2922
20°	2923	2906	2908
25°	2907	2890	2879
30°	2884	2851	2834
35°	2858	2800	2761
40°	2806	2723	2678
45°	2750	2644	2601
50°	2653	2564	2510
55°	2556	2447	2358
60°	2416	2267	2150
65°	2212	2019	1916
70°	1917	1751	1687
75°	1569	1510	1490
80°	1144	1291	1330
85°	767	1078	1145



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.5	3.6
10°-20°	555.6	10.2
20°-30°	840.9	15.5
30°-40°	1000.5	18.4
40°-50°	1010.6	18.6
50°-60°	874.5	16.1
60°-70°	597.4	11.0
70°-80°	294.4	5.4
80°-90°	73.6	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°	1590.0	29.2
0°-40°	2590.5	47.6
0°-60°	4475.7	82.3
0°-90°	5441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5441.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2041	2041	2041	2041	2041	
5°	2044	2036	2034	2032	2038	194
15°	1977	1970	1966	1965	1969	558
25°	1838	1831	1827	1820	1820	847
35°	1633	1619	1600	1582	1578	1019
45°	1356	1333	1304	1289	1282	1041
55°	1022	1008	979	958	943	910
65°	652	627	595	576	565	644
75°	283	275	272	271	269	303
85°	47	58	66	68	70	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2040.6	2040.6	2040.6	2040.6	2040.6
2.5°	2048.8	2041.2	2038.8	2037.0	2042.4
5°	2044.1	2036.5	2034.1	2032.3	2038.2
7.5°	2034.1	2026.4	2024.1	2022.3	2027.0
10°	2019.3	2012.3	2009.9	2008.1	2013.4
12.5°	2000.5	1994.0	1991.0	1988.7	1994.6
15°	1976.9	1970.4	1966.3	1965.1	1968.6
17.5°	1948.6	1942.1	1939.1	1937.3	1941.5
20°	1915.5	1908.4	1904.3	1902.0	1905.5
22.5°	1878.9	1871.9	1866.6	1864.2	1865.4
25°	1837.6	1830.6	1827.0	1819.9	1819.9
27.5°	1793.4	1785.1	1776.3	1768.6	1769.2
30°	1742.1	1732.6	1722.0	1712.0	1711.4
32.5°	1690.2	1678.4	1665.4	1651.8	1647.7
35°	1632.9	1619.4	1599.9	1582.2	1577.5
37.5°	1565.7	1553.3	1527.3	1512.6	1504.9
40°	1499.0	1481.3	1454.8	1437.7	1430.6
42.5°	1425.9	1408.8	1380.4	1364.5	1358.6
45°	1356.3	1333.3	1303.8	1289.0	1282.5
47.5°	1269.5	1250.7	1230.0	1212.9	1204.6
50°	1189.3	1174.0	1149.2	1130.3	1125.0
52.5°	1105.5	1092.6	1069.0	1044.2	1038.3
55°	1022.4	1008.2	978.7	958.1	943.3
57.5°	928.6	916.2	888.4	861.9	848.9
60°	842.4	821.2	790.5	761.6	749.8
62.5°	748.6	728.0	692.6	663.1	656.6
65°	651.9	627.1	595.2	575.8	564.6
67.5°	553.9	529.8	503.2	490.8	483.7
70°	457.2	437.7	417.7	408.8	402.3
72.5°	364.0	352.8	341.6	338.0	332.1
75°	283.2	274.9	272.5	270.8	269.0
77.5°	204.1	208.2	210.6	213.0	210.6
80°	138.6	147.5	156.3	161.1	161.1
82.5°	85.5	100.9	108.5	113.3	112.7
85°	46.6	57.8	65.5	67.8	69.6
87.5°	18.9	23.6	26.5	28.9	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)