

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: P738569

Luminaire Tested: **24PT-50-PL1-L840**

Issue Date: 2/8/2024



**Test Information**

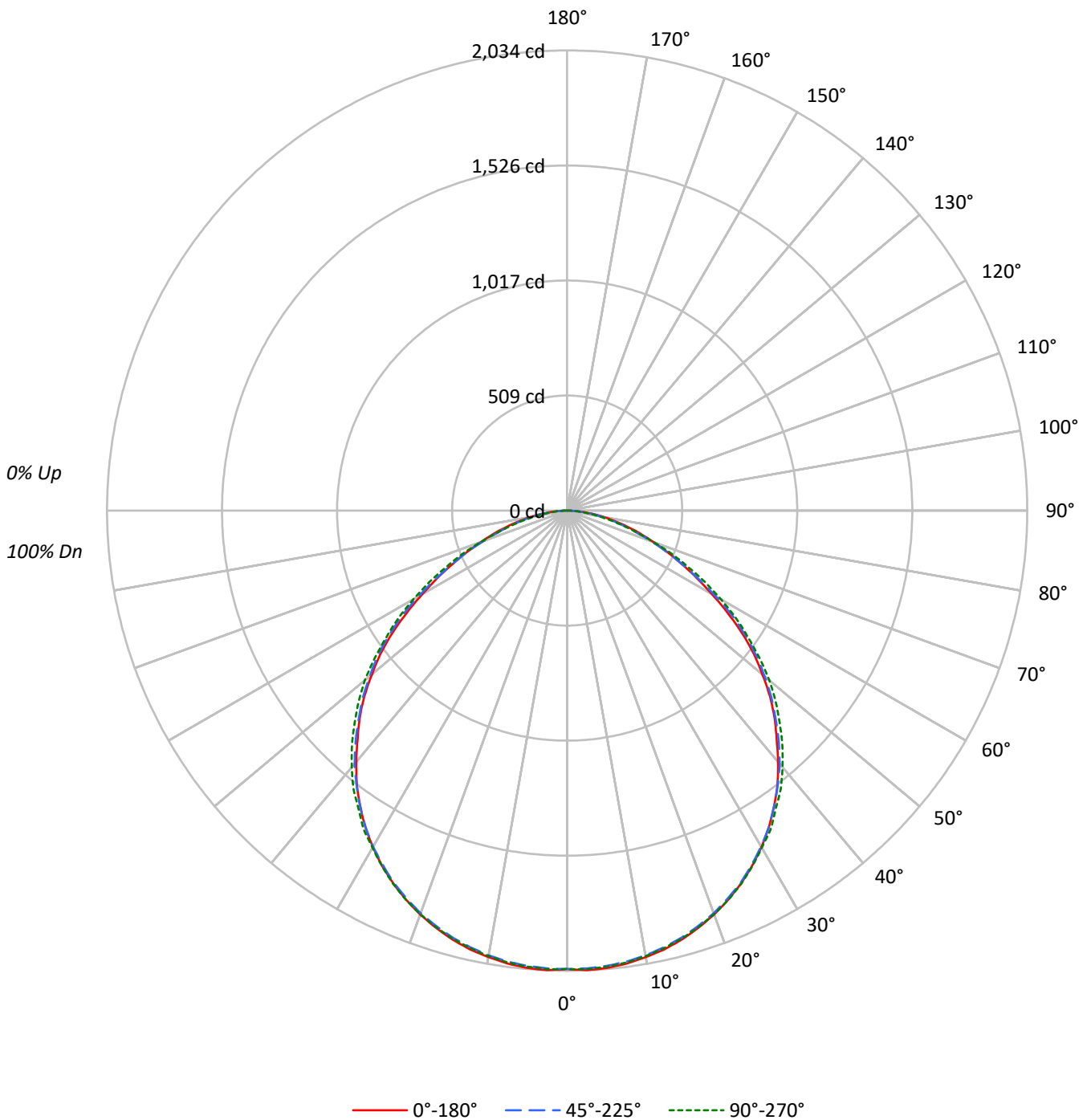
Test Method: LM-79-08  
Report Number: P738569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PL1-L840  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5364.0 lumens  
Efficiency: N/A  
Efficacy: 130.8 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 (Ain): 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		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56		66	60	55		64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49		60	53	48		58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

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

	0°	45°	90°
0°	2906	2906	2906
5°	2920	2908	2912
10°	2918	2906	2912
15°	2913	2901	2907
20°	2898	2890	2897
25°	2877	2871	2880
30°	2843	2839	2849
35°	2792	2793	2814
40°	2715	2736	2773
45°	2630	2642	2694
50°	2513	2542	2603
55°	2359	2403	2439
60°	2118	2170	2250
65°	1895	1899	2002
70°	1690	1643	1702
75°	1526	1436	1410
80°	1357	1265	1116
85°	1112	1055	872



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.2	3.6
10°-20°	551.9	10.3
20°-30°	836.2	15.6
30°-40°	999.3	18.6
40°-50°	1008.1	18.8
50°-60°	855.3	15.9
60°-70°	565.9	10.5
70°-80°	280.8	5.2
80°-90°	74.3	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°	1580.4	29.5
0°-40°	2579.7	48.1
0°-60°	4443.0	82.8
0°-90°	5364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5364.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2029	2022	2020	2019	2023	193
15°	1962	1956	1954	1954	1958	554
25°	1818	1814	1814	1814	1820	838
35°	1595	1592	1596	1604	1608	996
45°	1297	1296	1303	1320	1329	998
55°	944	946	961	970	976	839
65°	559	557	560	577	590	557
75°	276	268	259	251	254	295
85°	68	68	64	59	53	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2026.5	2026.5	2026.5	2026.5	2026.5
2.5°	2033.5	2027.1	2025.3	2024.2	2028.8
5°	2028.8	2021.8	2020.1	2018.9	2023.0
7.5°	2019.5	2011.9	2010.8	2009.6	2014.8
10°	2004.4	1997.4	1996.2	1995.0	1999.7
12.5°	1986.3	1979.3	1977.0	1977.6	1980.5
15°	1962.4	1956.0	1954.3	1954.3	1958.3
17.5°	1932.7	1926.9	1925.7	1925.1	1930.4
20°	1899.5	1893.7	1893.7	1895.4	1898.3
22.5°	1861.7	1857.6	1855.2	1856.4	1862.2
25°	1818.5	1814.5	1814.5	1813.9	1820.3
27.5°	1770.8	1765.5	1765.5	1770.2	1772.5
30°	1717.2	1712.5	1714.9	1718.4	1720.7
32.5°	1659.5	1656.6	1658.4	1663.6	1672.9
35°	1594.9	1592.5	1595.5	1604.2	1607.7
37.5°	1527.3	1525.6	1529.6	1541.3	1551.2
40°	1450.4	1450.4	1461.5	1472.0	1481.3
42.5°	1370.6	1375.9	1384.0	1400.3	1408.5
45°	1297.2	1295.5	1303.0	1320.5	1328.7
47.5°	1215.7	1213.9	1225.0	1237.2	1250.6
50°	1126.5	1126.0	1139.4	1149.8	1166.7
52.5°	1039.8	1045.0	1053.7	1063.1	1073.0
55°	943.6	946.0	961.1	969.9	975.7
57.5°	840.0	847.5	866.2	879.0	884.2
60°	738.6	743.3	756.7	779.4	784.6
62.5°	646.6	648.3	656.5	682.1	689.1
65°	558.6	557.4	559.8	577.3	590.1
67.5°	478.8	474.2	474.2	483.5	499.2
70°	403.1	396.1	392.0	394.9	406.0
72.5°	339.6	330.3	319.8	318.0	325.0
75°	275.5	267.9	259.2	251.1	254.5
77.5°	219.6	213.2	205.0	195.7	191.1
80°	164.3	161.9	153.2	144.5	135.1
82.5°	114.8	113.0	107.2	100.2	94.4
85°	67.6	67.6	64.1	58.8	53.0
87.5°	30.3	29.1	30.3	25.6	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)