

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: P738226

Luminaire Tested: **22PT-50-PB1-L850**

Issue Date: 2/8/2024



**Test Information**

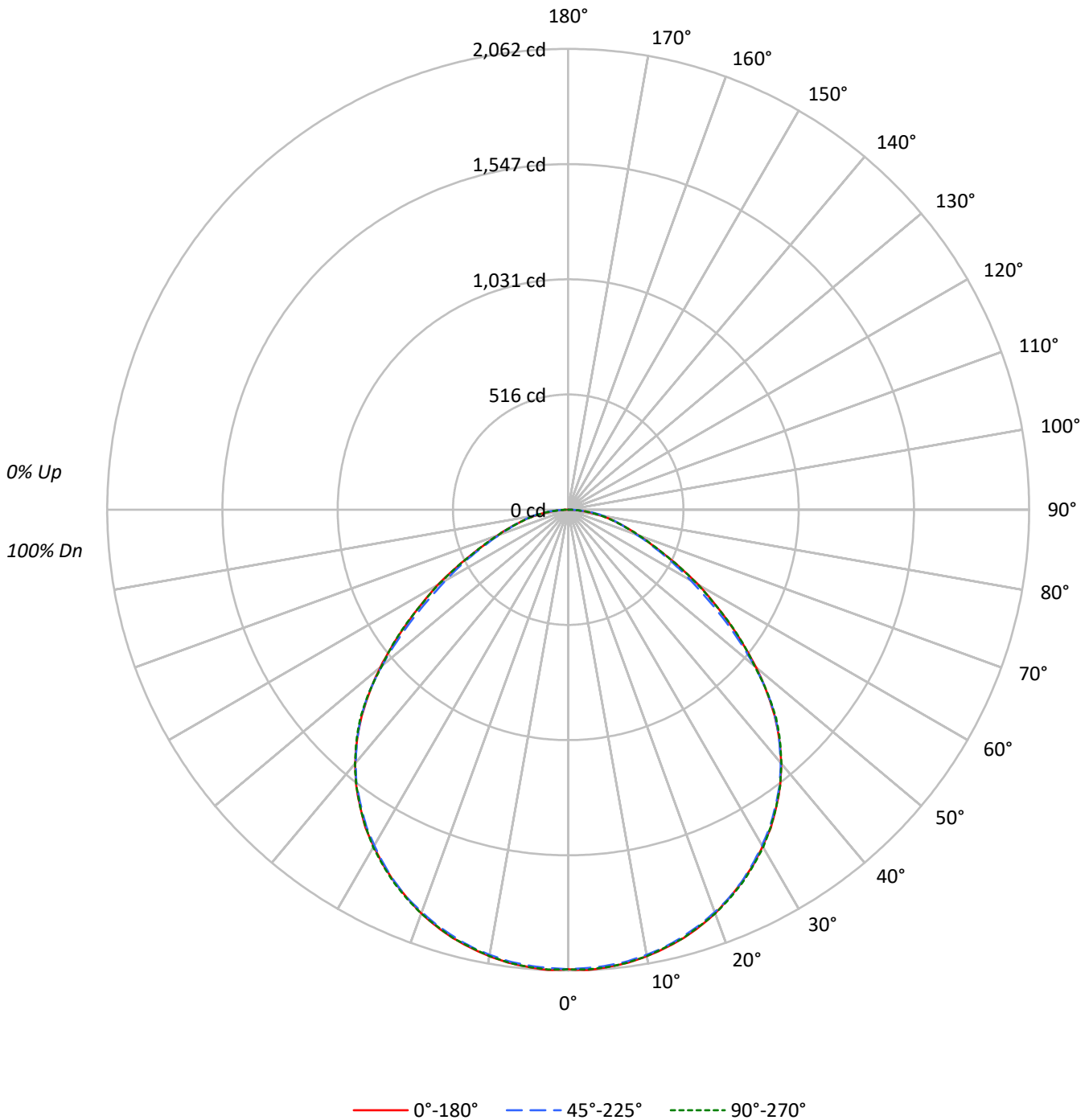
Test Method: LM-79-08  
Report Number: P738226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-851-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-50-PB1-L850  
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5185.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.3  
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	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	44	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	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	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	6026	6026	6026
5°	6041	6022	6041
10°	6037	6017	6034
15°	6023	6000	6020
20°	5993	5974	5995
25°	5943	5938	5957
30°	5883	5869	5900
35°	5804	5783	5804
40°	5669	5656	5675
45°	5414	5425	5445
50°	5000	4958	4965
55°	4467	4318	4484
60°	3944	3704	3919
65°	3304	3200	3304
70°	2865	2786	2879
75°	2612	2650	2612
80°	2455	2666	2469
85°	2135	2612	2192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.0	3.8
10°-20°	559.2	10.8
20°-30°	846.8	16.3
30°-40°	1012.8	19.5
40°-50°	1002.8	19.3
50°-60°	771.0	14.9
60°-70°	469.5	9.1
70°-80°	248.5	4.8
80°-90°	79.6	1.5
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°	1601.0	30.9
0°-40°	2613.7	50.4
0°-60°	4387.4	84.6
0°-90°	5185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2056	2056	2056	2056	2056	
5°	2054	2053	2047	2051	2054	195
15°	1985	1982	1978	1982	1985	560
25°	1838	1837	1837	1839	1842	847
35°	1623	1621	1617	1622	1623	1014
45°	1307	1308	1309	1310	1314	1002
55°	874	863	845	860	878	784
65°	476	465	462	461	476	482
75°	231	231	234	232	231	248
85°	64	73	78	74	65	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2056.5	2056.5	2056.5	2056.5	2056.5
2.5°	2061.5	2058.2	2052.3	2056.5	2059.0
5°	2054.0	2053.1	2047.3	2050.6	2054.0
7.5°	2044.8	2042.3	2038.1	2041.4	2043.9
10°	2028.9	2027.2	2022.2	2026.4	2028.1
12.5°	2008.8	2007.2	2003.8	2007.2	2006.3
15°	1985.4	1982.1	1977.9	1982.1	1984.6
17.5°	1956.2	1952.8	1949.5	1952.0	1953.7
20°	1921.9	1916.9	1916.0	1919.4	1922.7
22.5°	1880.9	1880.9	1880.1	1882.6	1884.3
25°	1838.3	1836.6	1836.6	1839.1	1842.5
27.5°	1792.3	1789.0	1787.3	1791.5	1794.0
30°	1738.8	1738.0	1734.6	1741.3	1743.8
32.5°	1687.0	1678.6	1680.3	1683.6	1684.5
35°	1622.6	1620.9	1616.8	1621.8	1622.6
37.5°	1557.4	1556.6	1554.1	1555.7	1556.6
40°	1482.2	1481.3	1478.8	1482.2	1483.8
42.5°	1398.6	1396.9	1396.9	1399.4	1401.9
45°	1306.6	1307.5	1309.1	1310.0	1314.1
47.5°	1203.8	1205.5	1207.1	1205.5	1206.3
50°	1096.8	1096.0	1087.6	1093.4	1089.3
52.5°	983.9	971.4	964.7	978.1	987.3
55°	874.4	862.7	845.2	860.2	877.8
57.5°	769.1	749.0	730.6	748.2	765.7
60°	673.0	642.0	632.0	642.9	668.8
62.5°	570.1	548.4	545.1	546.7	569.3
65°	476.5	464.8	461.5	460.6	476.5
67.5°	399.6	392.1	387.9	391.2	401.3
70°	334.4	331.0	325.2	331.0	336.1
72.5°	280.9	280.0	275.0	280.0	278.4
75°	230.7	230.7	234.1	232.4	230.7
77.5°	188.1	189.8	195.6	190.6	185.6
80°	145.5	149.6	158.0	150.5	146.3
82.5°	103.7	112.9	122.1	112.9	107.0
85°	63.5	72.7	77.7	73.6	65.2
87.5°	27.6	32.6	34.3	31.8	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)