

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: P738266

Luminaire Tested: **22PT-50-PW1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506233)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-50-PW1-L850
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

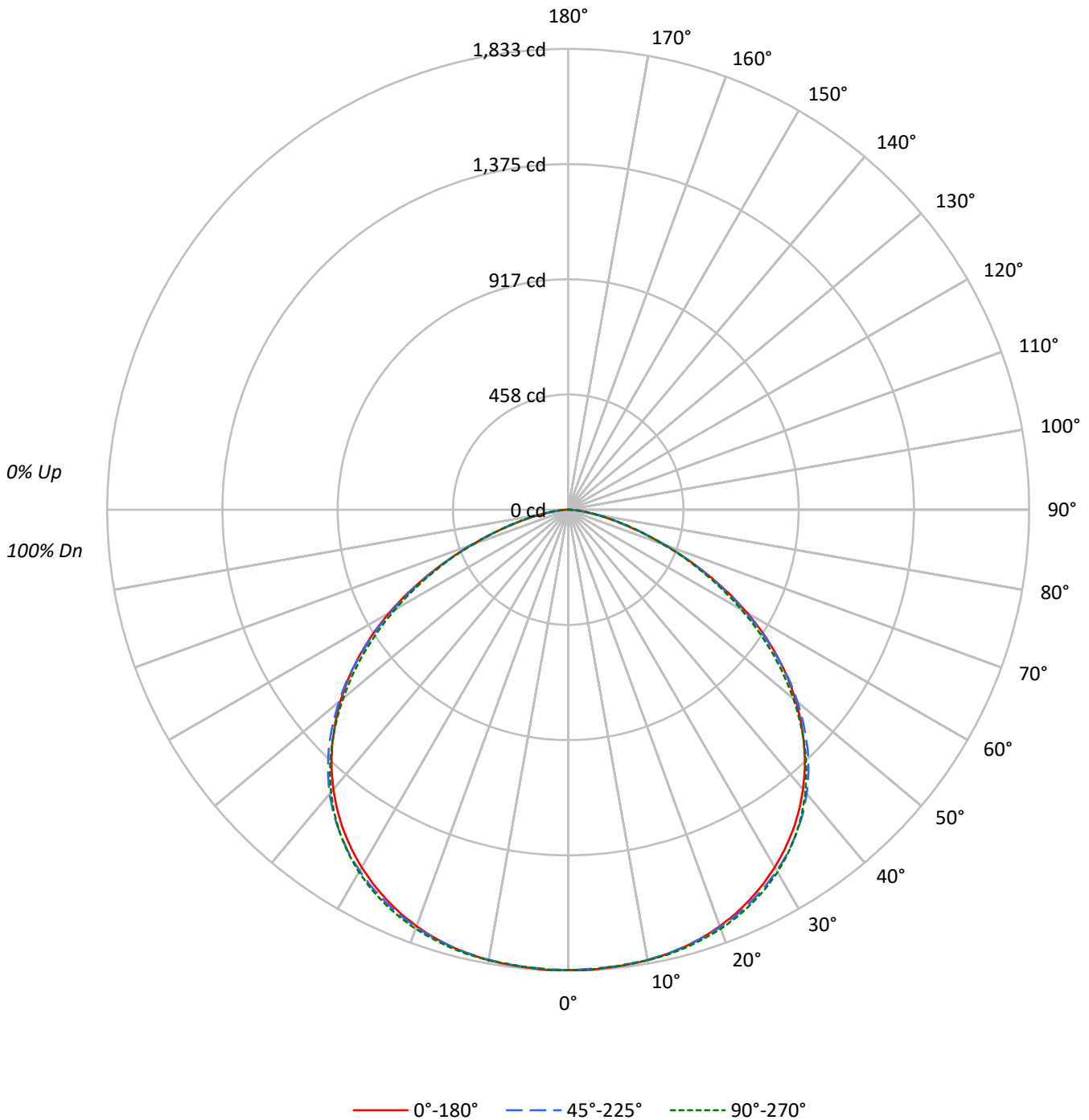
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5293.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44
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 (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	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5365	5365	5365
5°	5380	5372	5374
10°	5415	5407	5413
15°	5457	5455	5471
20°	5498	5509	5532
25°	5531	5562	5588
30°	5558	5611	5631
35°	5571	5644	5646
40°	5555	5644	5612
45°	5500	5578	5510
50°	5388	5427	5327
55°	5178	5155	5058
60°	4821	4767	4667
65°	4251	4210	4129
70°	3482	3499	3425
75°	2638	2726	2705
80°	1912	1988	1956
85°	1251	1298	1385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	3.3
10°-20°	508.5	9.6
20°-30°	792.8	15.0
30°-40°	982.7	18.6
40°-50°	1028.3	19.4
50°-60°	896.0	16.9
60°-70°	600.2	11.3
70°-80°	260.2	4.9
80°-90°	50.1	0.9
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°	1475.5	27.9
0°-40°	2458.2	46.4
0°-60°	4382.5	82.8
0°-90°	5293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1829	1827	1826	1826	1827	174
15°	1799	1796	1798	1800	1804	508
25°	1711	1711	1720	1726	1728	789
35°	1558	1563	1578	1580	1578	974
45°	1327	1334	1346	1335	1330	1022
55°	1014	1013	1009	998	990	903
65°	613	610	607	602	596	607
75°	233	237	241	239	239	257
85°	37	40	39	39	41	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1833.0	1829.7	1829.0	1829.0	1831.1
5°	1829.0	1827.1	1826.4	1825.9	1827.1
7.5°	1825.2	1822.6	1823.3	1821.9	1823.3
10°	1820.0	1817.4	1817.4	1817.4	1819.3
12.5°	1810.8	1808.9	1809.5	1810.8	1813.4
15°	1798.9	1796.3	1798.4	1800.3	1803.6
17.5°	1782.6	1780.7	1784.0	1787.3	1789.9
20°	1763.1	1761.0	1766.9	1771.6	1774.2
22.5°	1738.7	1738.2	1746.0	1751.3	1753.2
25°	1710.7	1711.2	1720.5	1725.7	1728.3
27.5°	1678.5	1679.9	1691.8	1696.3	1698.9
30°	1642.7	1645.8	1658.3	1662.2	1664.3
32.5°	1602.0	1606.7	1621.6	1624.2	1624.2
35°	1557.6	1563.3	1577.8	1579.7	1578.5
37.5°	1507.8	1514.3	1530.6	1528.0	1526.1
40°	1452.2	1459.3	1475.7	1470.4	1467.3
42.5°	1392.7	1399.8	1414.2	1406.4	1401.7
45°	1327.2	1334.4	1346.2	1335.1	1329.8
47.5°	1256.4	1264.9	1270.9	1258.5	1251.9
50°	1181.9	1184.6	1190.5	1176.0	1168.7
52.5°	1100.7	1100.7	1105.4	1089.6	1081.0
55°	1013.7	1013.0	1009.2	998.0	990.2
57.5°	921.5	917.5	914.9	903.0	894.0
60°	822.6	816.7	813.4	803.7	796.4
62.5°	719.3	716.0	712.0	704.2	696.3
65°	613.2	609.9	607.2	601.5	595.6
67.5°	507.9	505.8	505.8	502.0	501.3
70°	406.5	407.7	408.4	408.4	399.8
72.5°	314.8	315.5	318.8	316.1	315.5
75°	233.0	237.0	240.8	238.9	238.9
77.5°	167.6	173.5	173.5	172.1	170.2
80°	113.3	115.9	117.8	117.1	115.9
82.5°	72.0	73.9	72.0	73.3	73.9
85°	37.2	39.8	38.6	39.3	41.2
87.5°	12.4	13.7	14.4	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)