

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: P737882

Luminaire Tested: **14PT-50-PW1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-50-PW1-L850
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

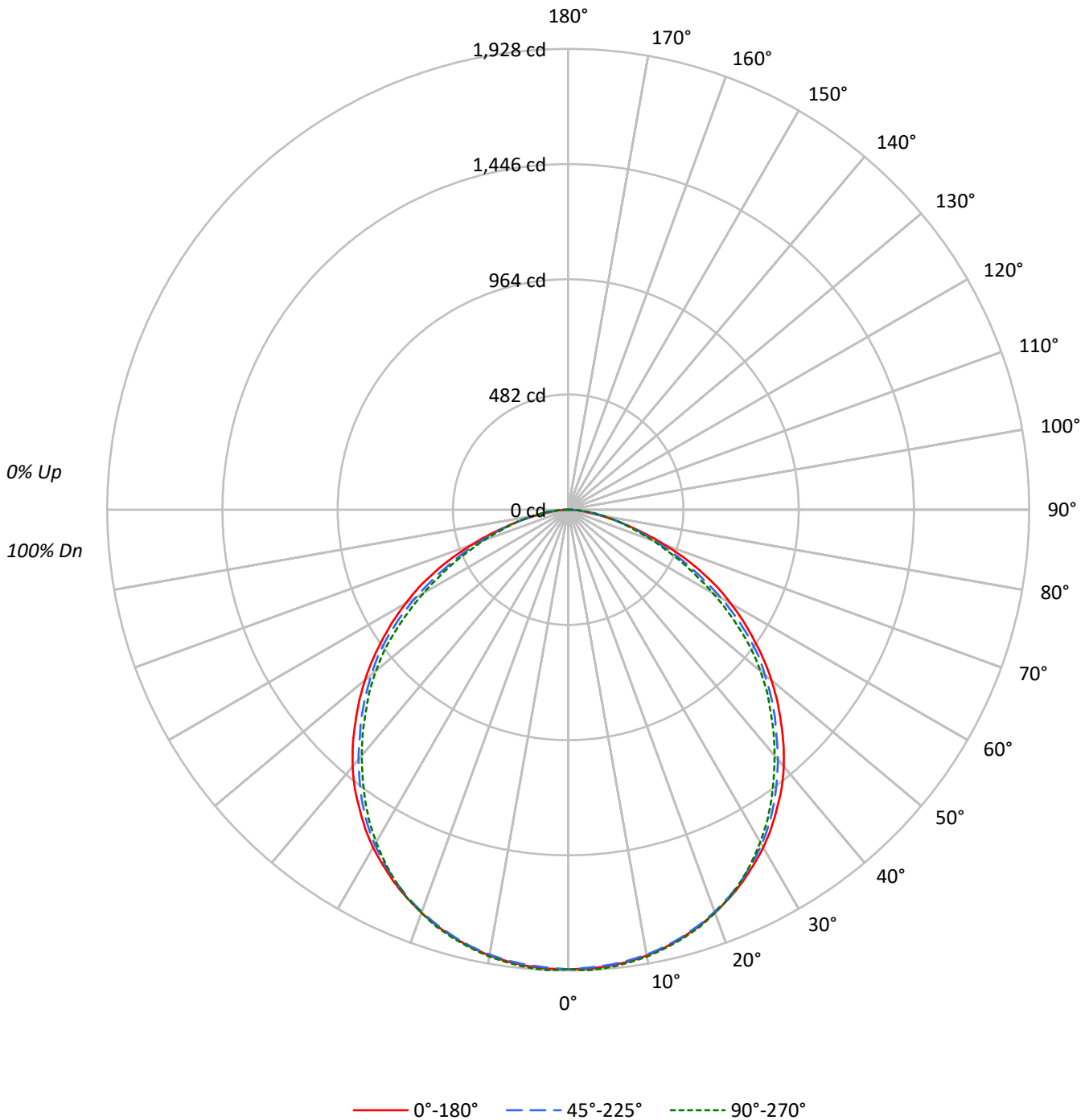
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5102.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): 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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5764	5764	5764
5°	5769	5756	5786
10°	5766	5753	5781
15°	5749	5740	5762
20°	5725	5711	5725
25°	5693	5670	5665
30°	5650	5600	5561
35°	5574	5491	5420
40°	5489	5339	5255
45°	5337	5180	5074
50°	5176	5007	4891
55°	4959	4792	4602
60°	4703	4425	4194
65°	4351	3951	3755
70°	3772	3441	3309
75°	3012	2946	2863
80°	2288	2559	2559
85°	1692	2181	2181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	3.6
10°-20°	522.9	10.2
20°-30°	790.3	15.5
30°-40°	938.5	18.4
40°-50°	945.5	18.5
50°-60°	817.2	16.0
60°-70°	558.5	10.9
70°-80°	275.5	5.4
80°-90°	71.2	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°	1495.6	29.3
0°-40°	2434.0	47.7
0°-60°	4196.8	82.3
0°-90°	5102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1917	1918	1913	1920	1923	182
15°	1852	1854	1849	1856	1856	523
25°	1721	1720	1714	1715	1712	793
35°	1523	1518	1500	1487	1481	953
45°	1259	1245	1222	1207	1197	971
55°	949	946	917	890	880	848
65°	613	591	557	533	529	605
75°	260	258	254	254	247	283
85°	49	58	63	65	63	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.6	1922.6	1922.6	1922.6	1922.6
2.5°	1921.9	1922.6	1917.6	1926.2	1928.3
5°	1916.9	1917.6	1912.6	1920.5	1922.6
7.5°	1907.6	1909.1	1903.4	1911.2	1912.6
10°	1894.1	1894.8	1889.8	1897.7	1899.1
12.5°	1875.6	1876.3	1872.0	1879.1	1879.1
15°	1852.1	1854.2	1849.2	1855.6	1856.3
17.5°	1825.7	1826.4	1821.4	1828.6	1830.0
20°	1794.4	1794.4	1790.1	1795.8	1794.4
22.5°	1759.5	1759.5	1754.5	1757.3	1758.8
25°	1721.0	1719.6	1713.9	1715.3	1712.5
27.5°	1676.8	1676.8	1666.9	1666.9	1661.9
30°	1632.0	1628.4	1617.7	1611.3	1606.3
32.5°	1580.7	1575.7	1562.2	1550.8	1547.2
35°	1523.0	1518.0	1500.2	1486.6	1480.9
37.5°	1467.4	1456.0	1432.5	1419.0	1412.6
40°	1402.6	1388.3	1364.1	1345.6	1342.8
42.5°	1332.8	1321.4	1290.0	1276.5	1272.9
45°	1258.7	1245.2	1221.7	1207.4	1196.7
47.5°	1186.0	1176.1	1149.0	1131.9	1128.3
50°	1109.8	1101.3	1073.5	1055.0	1048.6
52.5°	1030.8	1025.1	1001.5	978.0	970.2
55°	948.8	946.0	916.8	889.7	880.4
57.5°	868.3	864.8	828.4	797.1	788.6
60°	784.3	773.6	738.0	708.8	699.5
62.5°	704.5	681.7	643.2	620.4	609.8
65°	613.3	591.2	557.0	532.8	529.3
67.5°	523.6	497.2	470.9	455.9	444.5
70°	430.3	412.4	392.5	379.7	377.5
72.5°	343.3	330.5	320.6	312.7	306.3
75°	260.0	257.9	254.3	254.3	247.2
77.5°	190.9	195.9	198.7	198.0	199.5
80°	132.5	142.5	148.2	148.9	148.2
82.5°	84.1	95.5	104.7	106.1	107.6
85°	49.2	57.7	63.4	64.8	63.4
87.5°	22.1	27.8	29.2	30.6	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)