

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: P737881

Luminaire Tested: **14PT-50-PW1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737881
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-L840
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

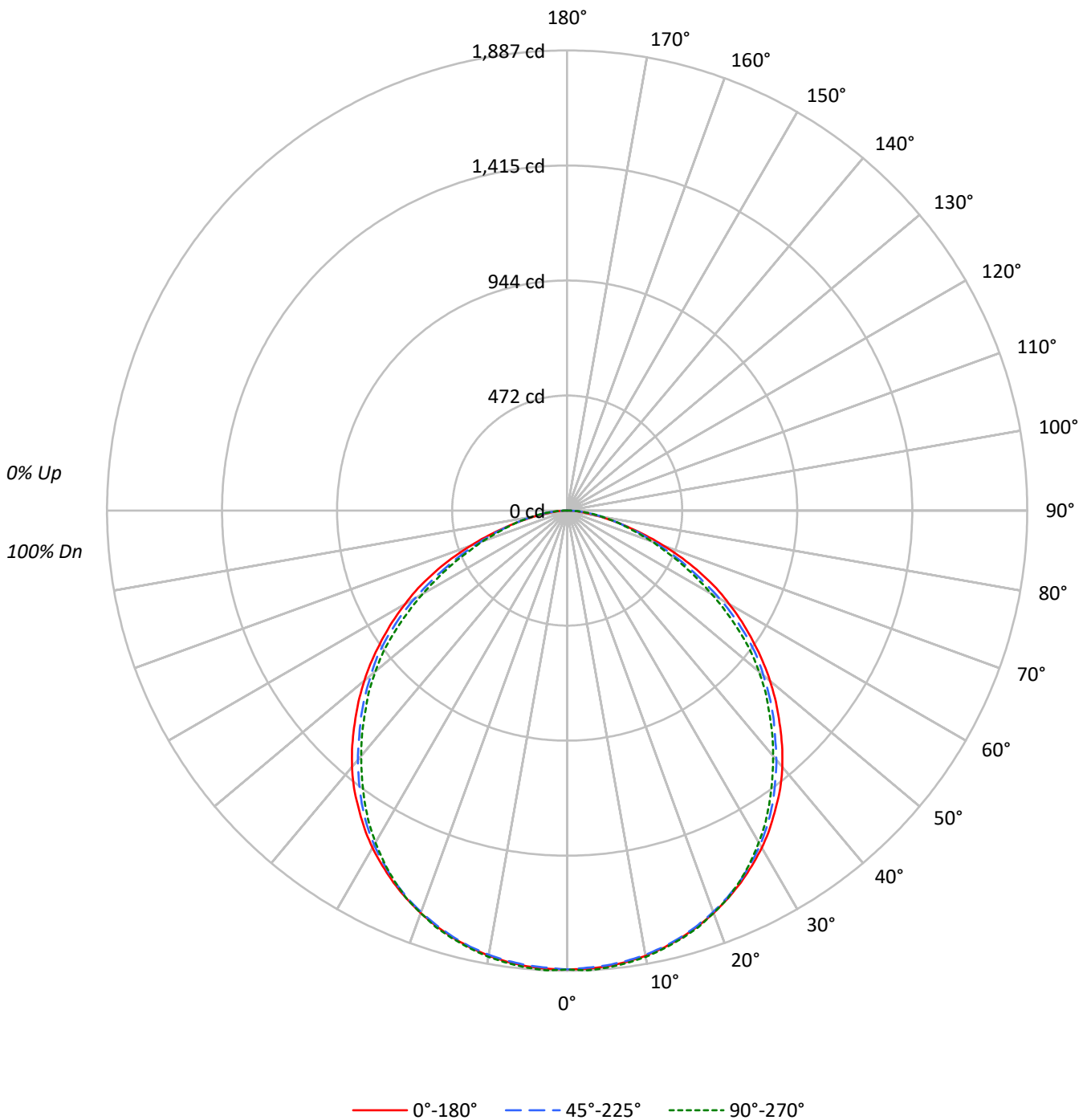
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4993.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

TEST NUMBER: P737881
CATALOG NUMBER: 14PT-50-PW1-L840

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	57	68	61	56		66	60	55		64	59	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	62	48	40	34	60	47	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5641	5641	5641
5°	5646	5633	5662
10°	5643	5630	5658
15°	5626	5617	5639
20°	5602	5589	5602
25°	5571	5549	5544
30°	5529	5481	5442
35°	5455	5373	5304
40°	5372	5225	5143
45°	5223	5069	4966
50°	5066	4900	4786
55°	4854	4690	4504
60°	4602	4330	4105
65°	4258	3867	3675
70°	3691	3367	3239
75°	2947	2883	2802
80°	2239	2503	2503
85°	1655	2133	2133



TEST NUMBER: P737881

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	3.6
10°-20°	511.8	10.2
20°-30°	773.5	15.5
30°-40°	918.4	18.4
40°-50°	925.3	18.5
50°-60°	799.8	16.0
60°-70°	546.6	10.9
70°-80°	269.6	5.4
80°-90°	69.7	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°	1463.6	29.3
0°-40°	2382.0	47.7
0°-60°	4107.1	82.3
0°-90°	4993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1876	1877	1872	1879	1882	178
15°	1812	1815	1810	1816	1817	512
25°	1684	1683	1677	1679	1676	776
35°	1490	1486	1468	1455	1449	933
45°	1232	1219	1196	1182	1171	951
55°	929	926	897	871	862	830
65°	600	579	545	521	518	592
75°	254	252	249	249	242	277
85°	48	56	62	63	62	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.5	1881.5	1881.5	1881.5	1881.5
2.5°	1880.8	1881.5	1876.6	1885.0	1887.1
5°	1875.9	1876.6	1871.8	1879.4	1881.5
7.5°	1866.9	1868.3	1862.7	1870.4	1871.8
10°	1853.6	1854.3	1849.5	1857.1	1858.5
12.5°	1835.5	1836.2	1832.0	1839.0	1839.0
15°	1812.5	1814.6	1809.7	1816.0	1816.7
17.5°	1786.7	1787.4	1782.5	1789.5	1790.9
20°	1756.0	1756.0	1751.9	1757.4	1756.0
22.5°	1721.9	1721.9	1717.0	1719.8	1721.2
25°	1684.2	1682.8	1677.3	1678.7	1675.9
27.5°	1641.0	1641.0	1631.3	1631.3	1626.4
30°	1597.1	1593.6	1583.2	1576.9	1572.0
32.5°	1546.9	1542.0	1528.8	1517.6	1514.1
35°	1490.4	1485.6	1468.1	1454.9	1449.3
37.5°	1436.1	1424.9	1401.9	1388.7	1382.4
40°	1372.6	1358.7	1335.0	1316.9	1314.1
42.5°	1304.3	1293.2	1262.5	1249.2	1245.8
45°	1231.8	1218.6	1195.6	1181.6	1171.2
47.5°	1160.7	1150.9	1124.5	1107.7	1104.2
50°	1086.1	1077.7	1050.6	1032.4	1026.2
52.5°	1008.7	1003.2	980.1	957.1	949.5
55°	928.6	925.8	897.2	870.7	861.6
57.5°	849.8	846.3	810.7	780.1	771.7
60°	767.5	757.1	722.2	693.6	684.6
62.5°	689.4	667.1	629.5	607.2	596.7
65°	600.2	578.6	545.1	521.4	518.0
67.5°	512.4	486.6	460.8	446.2	435.0
70°	421.1	403.6	384.1	371.6	369.5
72.5°	336.0	323.5	313.7	306.0	299.8
75°	254.4	252.4	248.9	248.9	241.9
77.5°	186.8	191.7	194.5	193.8	195.2
80°	129.7	139.4	145.0	145.7	145.0
82.5°	82.3	93.4	102.5	103.9	105.3
85°	48.1	56.5	62.0	63.4	62.0
87.5°	21.6	27.2	28.6	30.0	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)