

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: P737874

Luminaire Tested: **14PT-50-PR1-L850**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P737874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PT-50-PR1-L850  
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPLE LENS

Light Source: -  
Ballast/Driver: -

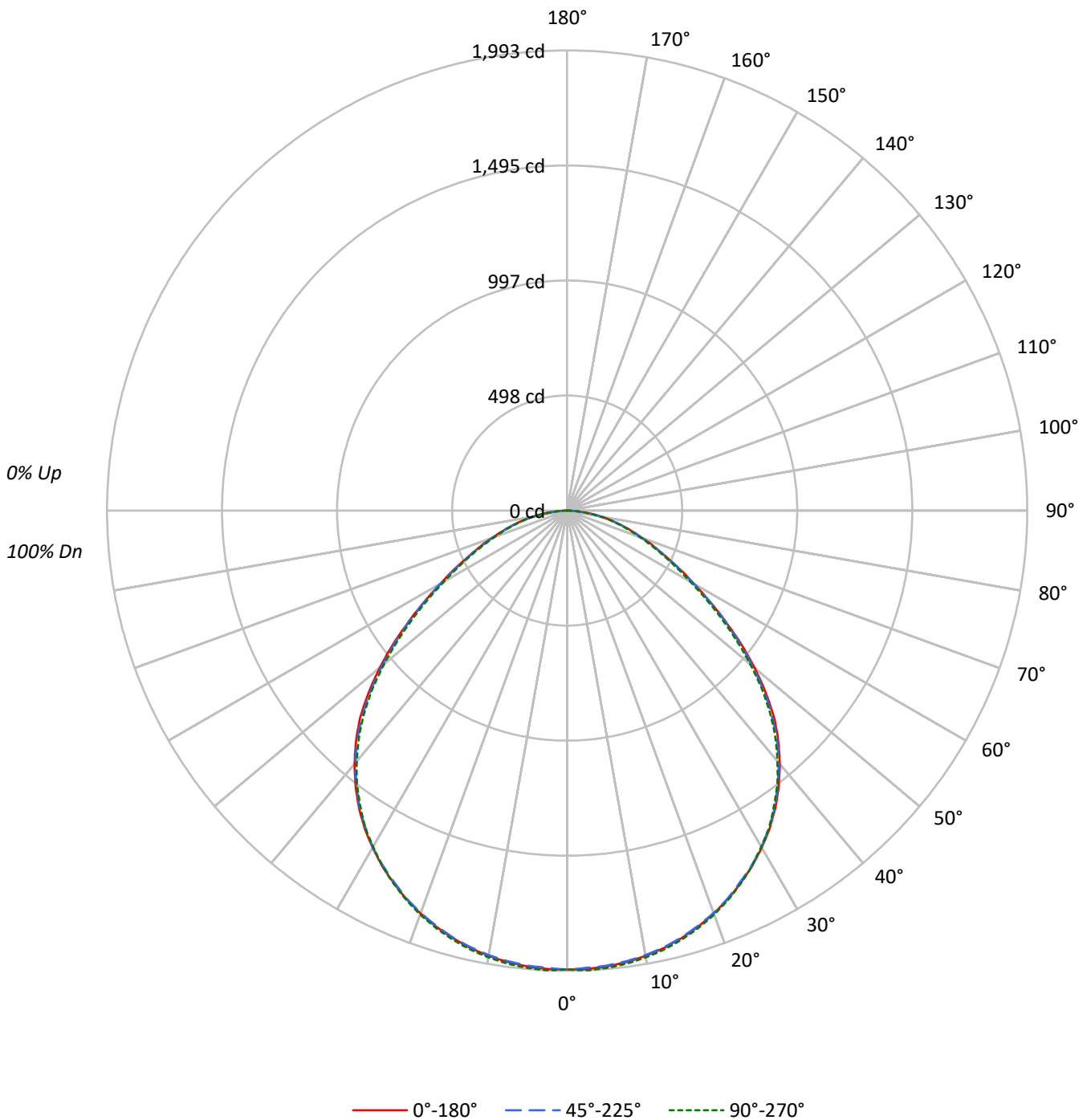
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5027.0 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 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<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	85
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	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	62	49	41	35	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	39	33	29	39	33	29	27

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

	0°	45°	90°
0°	5959	5959	5959
5°	5965	5952	5984
10°	5960	5950	5982
15°	5948	5939	5968
20°	5924	5917	5939
25°	5885	5871	5892
30°	5833	5826	5818
35°	5752	5739	5716
40°	5607	5585	5546
45°	5374	5313	5274
50°	4944	4888	4828
55°	4376	4357	4271
60°	3802	3789	3686
65°	3351	3331	3265
70°	3042	2998	2936
75°	2814	2748	2699
80°	2571	2535	2448
85°	2033	2009	1937



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.5	3.8
10°-20°	541.2	10.8
20°-30°	819.9	16.3
30°-40°	978.7	19.5
40°-50°	962.6	19.1
50°-60°	743.9	14.8
60°-70°	469.1	9.3
70°-80°	253.7	5.0
80°-90°	69.3	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°	1549.6	30.8
0°-40°	2528.4	50.3
0°-60°	4234.8	84.2
0°-90°	5027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5027.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1988	1988	1988	1988	1988	
5°	1982	1983	1978	1986	1988	188
15°	1916	1917	1914	1920	1923	541
25°	1779	1780	1775	1780	1781	820
35°	1572	1572	1568	1566	1562	981
45°	1268	1262	1253	1243	1244	971
55°	837	844	834	820	817	751
65°	472	473	470	462	460	475
75°	243	240	237	239	233	258
85°	59	60	58	59	56	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1987.7	1987.7	1987.7	1987.7	1987.7
2.5°	1987.0	1987.7	1982.0	1991.3	1993.4
5°	1982.0	1982.8	1977.8	1986.3	1988.5
7.5°	1972.1	1973.5	1968.5	1977.1	1979.2
10°	1957.8	1959.2	1954.3	1962.8	1964.9
12.5°	1940.0	1940.7	1936.4	1944.3	1946.4
15°	1916.5	1917.2	1913.6	1920.1	1922.9
17.5°	1889.4	1890.1	1885.2	1893.0	1894.4
20°	1856.7	1857.4	1854.5	1860.9	1861.6
22.5°	1820.3	1821.7	1817.5	1823.2	1823.9
25°	1779.0	1780.4	1774.7	1780.4	1781.1
27.5°	1735.5	1736.2	1731.3	1735.5	1734.8
30°	1685.0	1689.2	1682.8	1681.4	1680.7
32.5°	1632.2	1632.9	1626.5	1625.1	1628.0
35°	1571.7	1572.4	1568.1	1566.0	1561.7
37.5°	1505.4	1505.4	1497.6	1496.2	1495.4
40°	1432.7	1432.0	1427.0	1422.1	1417.1
42.5°	1353.7	1355.1	1345.1	1336.6	1335.1
45°	1267.5	1262.5	1253.2	1243.2	1243.9
47.5°	1165.6	1167.0	1154.2	1146.3	1144.2
50°	1060.1	1060.1	1048.0	1039.5	1035.2
52.5°	949.7	950.4	939.0	927.6	925.5
55°	837.1	844.3	833.6	820.0	817.2
57.5°	731.7	737.4	727.4	713.2	712.5
60°	634.1	634.8	631.9	618.4	614.8
62.5°	550.7	547.2	545.7	538.6	534.3
65°	472.4	473.1	469.5	461.7	460.2
67.5°	408.9	408.2	401.8	396.8	394.0
70°	347.0	344.8	342.0	337.7	334.9
72.5°	291.4	291.4	289.3	287.8	282.8
75°	242.9	240.1	237.2	238.7	233.0
77.5°	196.6	193.8	191.6	188.8	187.4
80°	148.9	146.1	146.8	142.5	141.8
82.5°	103.3	103.3	101.9	98.3	99.0
85°	59.1	59.8	58.4	59.1	56.3
87.5°	21.4	22.1	23.5	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)