

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: P737858

Luminaire Tested: **14PT-50-PL1-L850**

Issue Date: 2/8/2024



**Test Information**

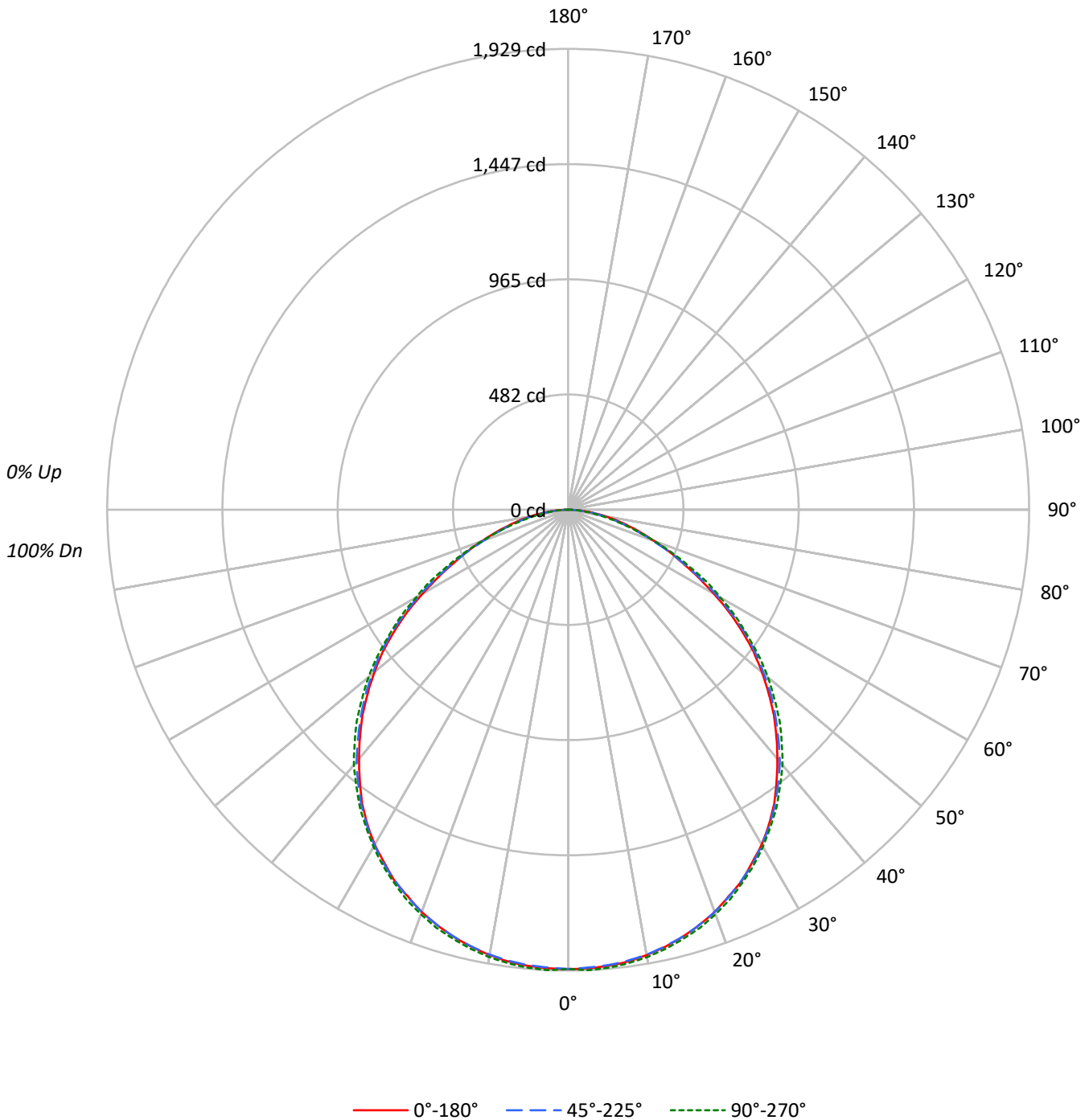
Test Method: LM-79-08  
Report Number: P737858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PT-50-PL1-L850  
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5069.0 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35  
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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	5765	5765	5765
5°	5770	5759	5792
10°	5763	5757	5789
15°	5745	5743	5772
20°	5717	5717	5749
25°	5678	5671	5701
30°	5606	5614	5641
35°	5499	5520	5565
40°	5329	5390	5460
45°	5163	5205	5305
50°	4935	4988	5088
55°	4648	4722	4778
60°	4216	4306	4413
65°	3745	3785	3937
70°	3348	3278	3360
75°	3021	2847	2789
80°	2743	2547	2263
85°	2329	2109	1813



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.4	3.6
10°-20°	523.2	10.3
20°-30°	791.4	15.6
30°-40°	943.3	18.6
40°-50°	948.5	18.7
50°-60°	805.0	15.9
60°-70°	536.0	10.6
70°-80°	267.7	5.3
80°-90°	71.6	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°	1496.9	29.5
0°-40°	2440.2	48.1
0°-60°	4193.8	82.7
0°-90°	5069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1917	1918	1914	1922	1924	182
15°	1851	1853	1850	1858	1860	522
25°	1716	1716	1714	1722	1724	789
35°	1503	1504	1508	1519	1520	937
45°	1218	1220	1228	1244	1251	937
55°	889	896	903	912	914	792
65°	528	532	534	542	555	529
75°	261	257	246	240	241	280
85°	68	66	61	58	53	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1921.5	1922.9	1918.0	1927.2	1929.4
5°	1917.2	1918.0	1913.7	1922.2	1924.4
7.5°	1908.0	1908.7	1904.4	1913.7	1915.1
10°	1893.0	1894.4	1890.9	1899.4	1901.6
12.5°	1873.8	1875.9	1872.4	1881.6	1883.0
15°	1851.0	1853.1	1850.3	1858.1	1859.5
17.5°	1823.2	1824.6	1823.2	1830.3	1834.6
20°	1791.8	1791.8	1791.8	1798.3	1801.8
22.5°	1752.7	1756.2	1754.8	1763.4	1766.9
25°	1716.3	1716.3	1714.2	1722.0	1723.5
27.5°	1665.7	1671.4	1670.7	1677.9	1679.3
30°	1619.4	1620.9	1621.6	1626.6	1629.4
32.5°	1563.1	1564.6	1566.7	1573.8	1574.5
35°	1502.6	1504.0	1508.3	1519.0	1520.4
37.5°	1432.1	1439.9	1443.5	1454.9	1456.3
40°	1361.5	1366.5	1377.2	1389.3	1395.0
42.5°	1289.6	1295.3	1301.7	1318.1	1323.0
45°	1217.6	1219.7	1227.6	1244.0	1251.1
47.5°	1137.8	1144.2	1151.3	1165.6	1169.9
50°	1058.0	1065.1	1069.4	1082.2	1090.8
52.5°	977.5	983.9	988.9	996.7	1005.3
55°	889.2	895.6	903.4	912.0	914.1
57.5°	799.4	806.5	811.5	820.8	830.0
60°	703.2	711.0	718.2	726.7	736.0
62.5°	613.4	617.0	624.1	638.4	651.9
65°	527.9	532.2	533.6	541.5	555.0
67.5°	456.7	456.7	450.3	453.1	468.1
70°	381.9	379.0	374.0	371.2	383.3
72.5°	321.3	317.8	307.1	302.1	308.5
75°	260.8	257.2	245.8	240.1	240.8
77.5°	209.5	203.8	194.5	184.5	182.4
80°	158.9	156.7	147.5	138.2	131.1
82.5°	112.6	107.6	102.6	96.9	91.2
85°	67.7	66.3	61.3	57.7	52.7
87.5°	27.8	27.8	26.4	24.9	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)