

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: P737857

Luminaire Tested: **14PT-50-PL1-L840**

Issue Date: 2/8/2024



**Test Information**

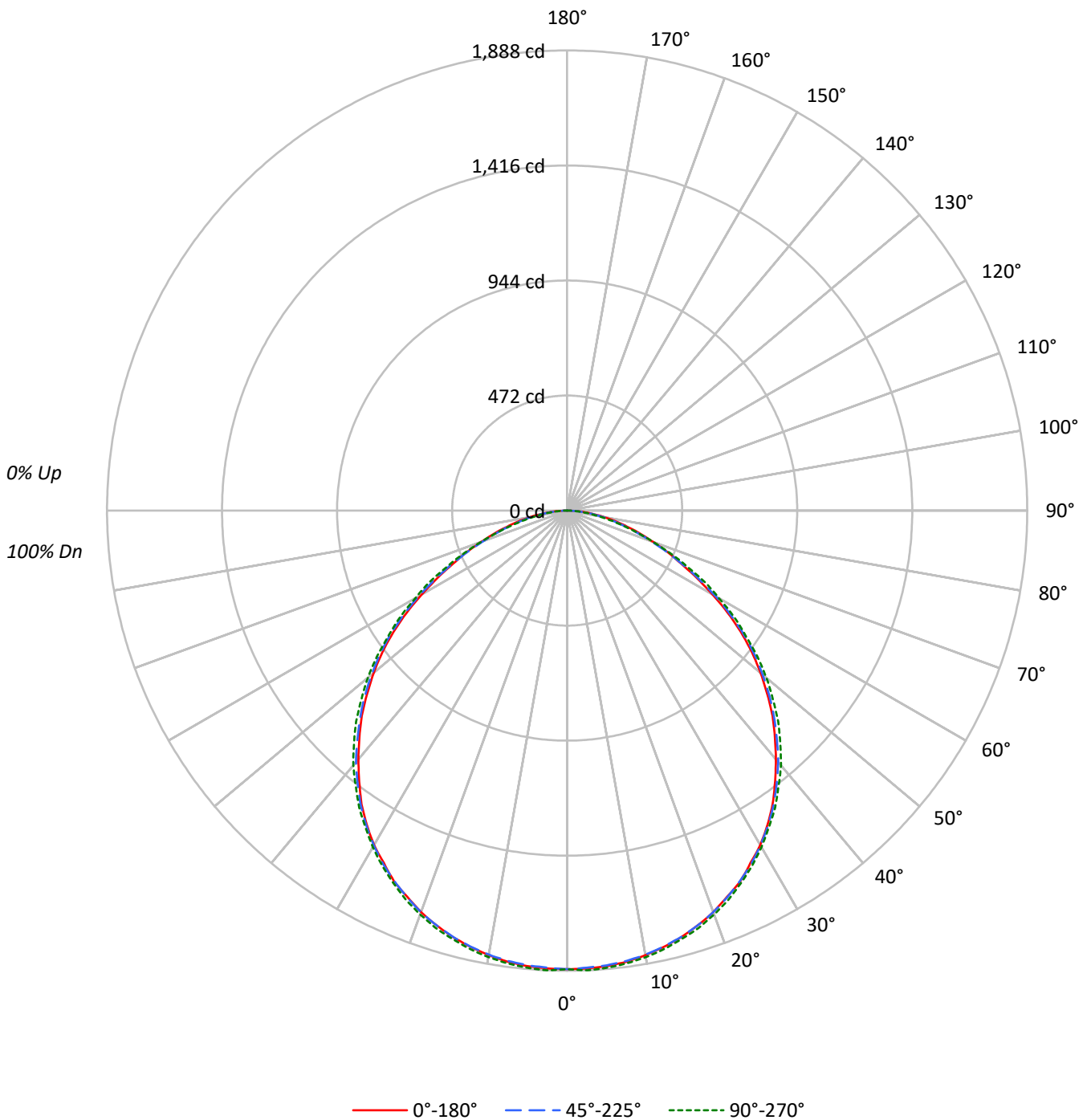
Test Method: LM-79-08  
Report Number: P737857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PT-50-PL1-L840  
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4960.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 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	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	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

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

	0°	45°	90°
0°	5641	5641	5641
5°	5646	5635	5667
10°	5639	5633	5665
15°	5622	5619	5647
20°	5594	5594	5625
25°	5555	5549	5579
30°	5486	5493	5520
35°	5381	5402	5445
40°	5214	5274	5342
45°	5051	5093	5191
50°	4829	4881	4978
55°	4547	4621	4675
60°	4126	4213	4318
65°	3665	3705	3853
70°	3276	3208	3288
75°	2956	2786	2729
80°	2685	2491	2215
85°	2277	2064	1775



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.5	3.6
10°-20°	511.9	10.3
20°-30°	774.3	15.6
30°-40°	923.0	18.6
40°-50°	928.1	18.7
50°-60°	787.7	15.9
60°-70°	524.5	10.6
70°-80°	261.9	5.3
80°-90°	70.1	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°	1464.8	29.5
0°-40°	2387.8	48.1
0°-60°	4103.6	82.7
0°-90°	4960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4960.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1876	1877	1872	1881	1883	178
15°	1811	1813	1810	1818	1820	511
25°	1679	1679	1677	1685	1686	772
35°	1470	1472	1476	1486	1488	917
45°	1191	1194	1201	1217	1224	917
55°	870	876	884	892	894	775
65°	517	521	522	530	543	518
75°	255	252	240	235	236	274
85°	66	65	60	56	52	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1881.6	1881.6	1881.6	1881.6	1881.6
2.5°	1880.2	1881.6	1876.7	1885.8	1887.9
5°	1876.0	1876.7	1872.5	1880.9	1883.0
7.5°	1867.0	1867.7	1863.5	1872.5	1873.9
10°	1852.3	1853.7	1850.2	1858.6	1860.7
12.5°	1833.5	1835.6	1832.1	1841.2	1842.6
15°	1811.2	1813.3	1810.5	1818.2	1819.5
17.5°	1784.0	1785.4	1784.0	1791.0	1795.1
20°	1753.3	1753.3	1753.3	1759.6	1763.1
22.5°	1715.0	1718.5	1717.1	1725.4	1728.9
25°	1679.4	1679.4	1677.3	1685.0	1686.4
27.5°	1629.9	1635.5	1634.8	1641.8	1643.2
30°	1584.6	1586.0	1586.7	1591.6	1594.4
32.5°	1529.5	1530.9	1533.0	1540.0	1540.7
35°	1470.3	1471.7	1475.9	1486.3	1487.7
37.5°	1401.3	1408.9	1412.4	1423.6	1425.0
40°	1332.2	1337.1	1347.6	1359.4	1365.0
42.5°	1261.8	1267.4	1273.7	1289.7	1294.6
45°	1191.4	1193.5	1201.2	1217.2	1224.2
47.5°	1113.3	1119.6	1126.6	1140.5	1144.7
50°	1035.3	1042.2	1046.4	1059.0	1067.3
52.5°	956.5	962.8	967.6	975.3	983.7
55°	870.0	876.3	884.0	892.3	894.4
57.5°	782.2	789.2	794.0	803.1	812.2
60°	688.1	695.8	702.7	711.1	720.2
62.5°	600.2	603.7	610.7	624.6	637.9
65°	516.6	520.8	522.2	529.8	543.1
67.5°	446.9	446.9	440.6	443.4	458.0
70°	373.7	370.9	366.0	363.2	375.1
72.5°	314.4	310.9	300.5	295.6	301.9
75°	255.2	251.7	240.5	234.9	235.6
77.5°	205.0	199.4	190.3	180.6	178.5
80°	155.5	153.4	144.3	135.2	128.3
82.5°	110.1	105.3	100.4	94.8	89.2
85°	66.2	64.8	60.0	56.5	51.6
87.5°	27.2	27.2	25.8	24.4	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)