

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: P738546

Luminaire Tested: **24PT-45-PR1-L850**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-45-PR1-L850  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source: -  
Ballast/Driver: -

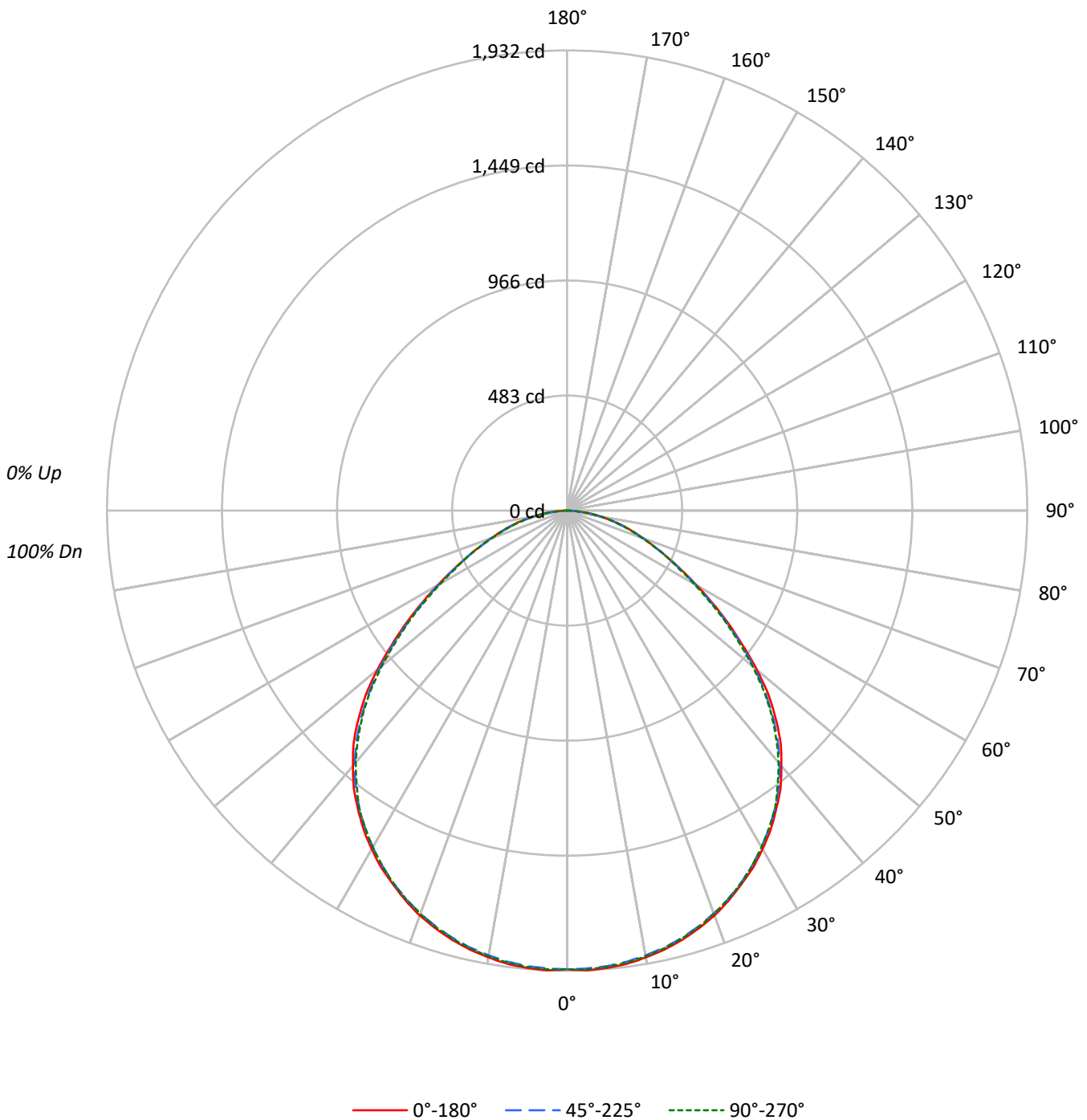
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4905.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.2  
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64					62				
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56					53				
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49					47				
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43					41				
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38					36				
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	42	36	31	41	36	31					29				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28					27				

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

	0°	45°	90°
0°	2762	2762	2762
5°	2774	2763	2768
10°	2774	2760	2767
15°	2770	2758	2762
20°	2761	2747	2749
25°	2738	2730	2731
30°	2717	2702	2702
35°	2680	2663	2666
40°	2619	2597	2585
45°	2514	2474	2461
50°	2321	2287	2266
55°	2066	2036	2023
60°	1801	1781	1763
65°	1578	1580	1571
70°	1420	1416	1395
75°	1322	1284	1287
80°	1181	1158	1158
85°	911	938	902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.7	3.7
10°-20°	524.6	10.7
20°-30°	795.4	16.2
30°-40°	951.3	19.4
40°-50°	939.3	19.1
50°-60°	731.1	14.9
60°-70°	464.1	9.5
70°-80°	249.1	5.1
80°-90°	67.5	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°	1502.7	30.6
0°-40°	2454.0	50.0
0°-60°	4124.3	84.1
0°-90°	4905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4905.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1928	1922	1920	1918	1923	183
15°	1866	1859	1858	1856	1861	527
25°	1731	1728	1725	1722	1726	798
35°	1531	1528	1522	1517	1523	957
45°	1240	1231	1220	1214	1214	952
55°	826	822	815	809	809	740
65°	465	467	466	460	463	467
75°	239	235	232	231	232	252
85°	55	56	57	57	55	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1926.0	1926.0	1926.0	1926.0	1926.0
2.5°	1932.4	1926.0	1923.8	1922.8	1927.6
5°	1927.6	1921.7	1919.5	1918.5	1922.8
7.5°	1919.5	1912.5	1910.4	1909.3	1914.2
10°	1905.0	1898.6	1895.9	1895.9	1900.2
12.5°	1887.8	1882.4	1879.7	1877.6	1882.4
15°	1865.8	1859.3	1857.7	1855.6	1860.9
17.5°	1839.4	1833.0	1830.8	1829.7	1833.5
20°	1809.3	1801.2	1800.2	1799.6	1801.8
22.5°	1772.2	1767.9	1765.8	1764.7	1766.3
25°	1730.8	1727.6	1725.4	1722.2	1726.5
27.5°	1690.5	1686.2	1680.8	1678.1	1680.8
30°	1641.0	1635.6	1631.9	1630.8	1631.9
32.5°	1589.9	1584.6	1579.7	1579.2	1578.6
35°	1530.8	1527.6	1521.6	1516.8	1523.3
37.5°	1472.2	1464.7	1459.3	1453.4	1451.8
40°	1399.1	1396.4	1387.2	1381.9	1381.3
42.5°	1328.1	1315.7	1309.3	1305.5	1299.6
45°	1239.9	1231.3	1220.0	1214.1	1213.6
47.5°	1148.0	1137.2	1126.5	1118.4	1120.5
50°	1040.4	1035.6	1025.4	1018.4	1015.7
52.5°	929.7	928.6	917.8	913.5	908.7
55°	826.4	822.1	814.6	809.2	809.2
57.5°	724.8	721.0	717.3	707.1	707.1
60°	628.0	627.5	621.0	615.1	614.6
62.5°	541.4	544.7	538.8	532.8	529.6
65°	465.1	466.7	465.6	459.7	462.9
67.5°	397.9	398.4	396.3	393.0	395.2
70°	338.7	341.4	337.7	335.5	332.8
72.5°	287.1	286.0	282.8	284.4	280.7
75°	238.7	235.0	231.7	231.2	232.3
77.5°	190.3	189.3	186.6	186.6	185.0
80°	143.0	141.9	140.3	140.9	140.3
82.5°	101.6	98.9	96.8	97.9	98.4
85°	55.4	56.5	57.0	57.0	54.8
87.5°	22.6	22.0	22.6	23.7	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)