

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: P738175

Luminaire Tested: **22PT-45-PB1-L830**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-851-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-45-PB1-L830  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND BEVEL LENS

Light Source: -  
Ballast/Driver: -

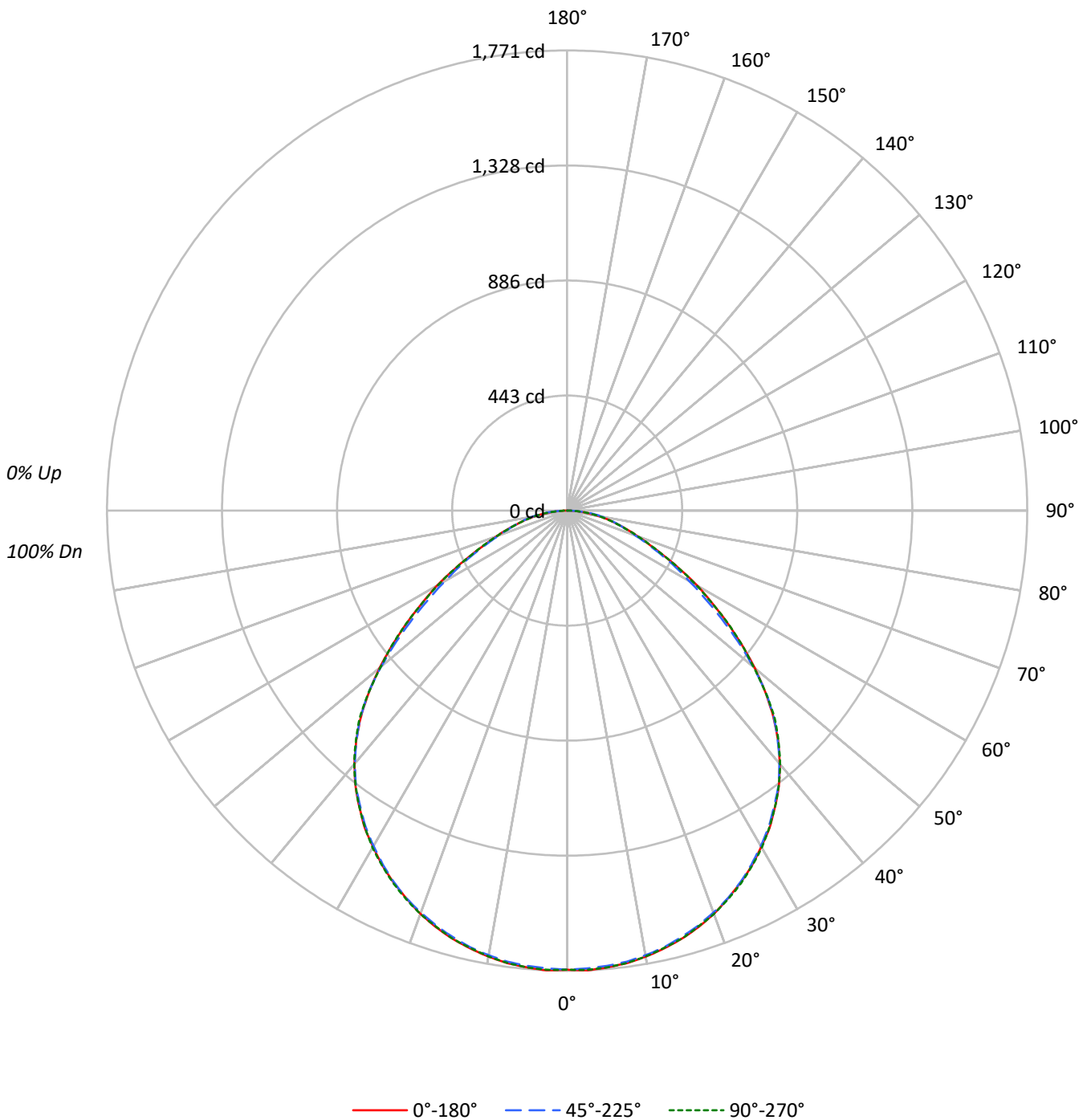
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4455.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.3  
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	88					86				
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	81	73	68	78	72	67	75	70	65	72	68	64					62				
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49					47				
6	72	59	51	45	70	59	50	44	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39					37				
8	63	49	41	36	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	40	33	29	39	33	29					27				

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

	0°	45°	90°
0°	5177	5177	5177
5°	5191	5174	5191
10°	5186	5170	5184
15°	5175	5155	5173
20°	5149	5133	5151
25°	5106	5102	5118
30°	5055	5043	5069
35°	4987	4969	4987
40°	4871	4860	4876
45°	4652	4661	4679
50°	4296	4260	4266
55°	3838	3710	3853
60°	3388	3182	3367
65°	2838	2749	2838
70°	2461	2394	2473
75°	2244	2277	2244
80°	2109	2291	2121
85°	1836	2246	1883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.6	3.8
10°-20°	480.5	10.8
20°-30°	727.5	16.3
30°-40°	870.2	19.5
40°-50°	861.6	19.3
50°-60°	662.4	14.9
60°-70°	403.4	9.1
70°-80°	213.5	4.8
80°-90°	68.4	1.5
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°	1375.6	30.9
0°-40°	2245.7	50.4
0°-60°	3769.7	84.6
0°-90°	4455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4455.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1765	1764	1759	1762	1765	168
15°	1706	1703	1699	1703	1705	481
25°	1580	1578	1578	1580	1583	728
35°	1394	1393	1389	1393	1394	871
45°	1123	1123	1125	1126	1129	861
55°	751	741	726	739	754	674
65°	409	399	396	396	409	414
75°	198	198	201	200	198	213
85°	55	62	67	63	56	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1767.0	1767.0	1767.0	1767.0	1767.0
2.5°	1771.3	1768.4	1763.4	1767.0	1769.1
5°	1764.8	1764.1	1759.1	1761.9	1764.8
7.5°	1756.9	1754.7	1751.1	1754.0	1756.2
10°	1743.2	1741.8	1737.5	1741.1	1742.5
12.5°	1726.0	1724.6	1721.7	1724.6	1723.9
15°	1705.9	1703.0	1699.4	1703.0	1705.2
17.5°	1680.8	1677.9	1675.0	1677.2	1678.6
20°	1651.3	1647.0	1646.3	1649.2	1652.0
22.5°	1616.1	1616.1	1615.4	1617.6	1619.0
25°	1579.5	1578.0	1578.0	1580.2	1583.1
27.5°	1540.0	1537.1	1535.7	1539.3	1541.4
30°	1494.0	1493.3	1490.4	1496.2	1498.3
32.5°	1449.5	1442.3	1443.7	1446.6	1447.3
35°	1394.2	1392.7	1389.1	1393.4	1394.2
37.5°	1338.1	1337.4	1335.3	1336.7	1337.4
40°	1273.5	1272.8	1270.6	1273.5	1274.9
42.5°	1201.7	1200.2	1200.2	1202.4	1204.5
45°	1122.7	1123.4	1124.8	1125.5	1129.1
47.5°	1034.3	1035.7	1037.2	1035.7	1036.5
50°	942.4	941.7	934.5	939.5	935.9
52.5°	845.4	834.6	828.9	840.4	848.3
55°	751.3	741.3	726.2	739.1	754.2
57.5°	660.8	643.6	627.8	642.9	657.9
60°	578.2	551.6	543.0	552.4	574.6
62.5°	489.9	471.2	468.3	469.8	489.1
65°	409.4	399.4	396.5	395.8	409.4
67.5°	343.3	336.9	333.3	336.2	344.8
70°	287.3	284.4	279.4	284.4	288.7
72.5°	241.3	240.6	236.3	240.6	239.2
75°	198.2	198.2	201.1	199.7	198.2
77.5°	161.6	163.0	168.1	163.8	159.5
80°	125.0	128.6	135.8	129.3	125.7
82.5°	89.1	97.0	104.9	97.0	91.9
85°	54.6	62.5	66.8	63.2	56.0
87.5°	23.7	28.0	29.4	27.3	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)