

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: P738176

Luminaire Tested: **22PT-45-PB1-L835**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738176  
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-L835  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND BEVEL LENS

Light Source: -  
Ballast/Driver: -

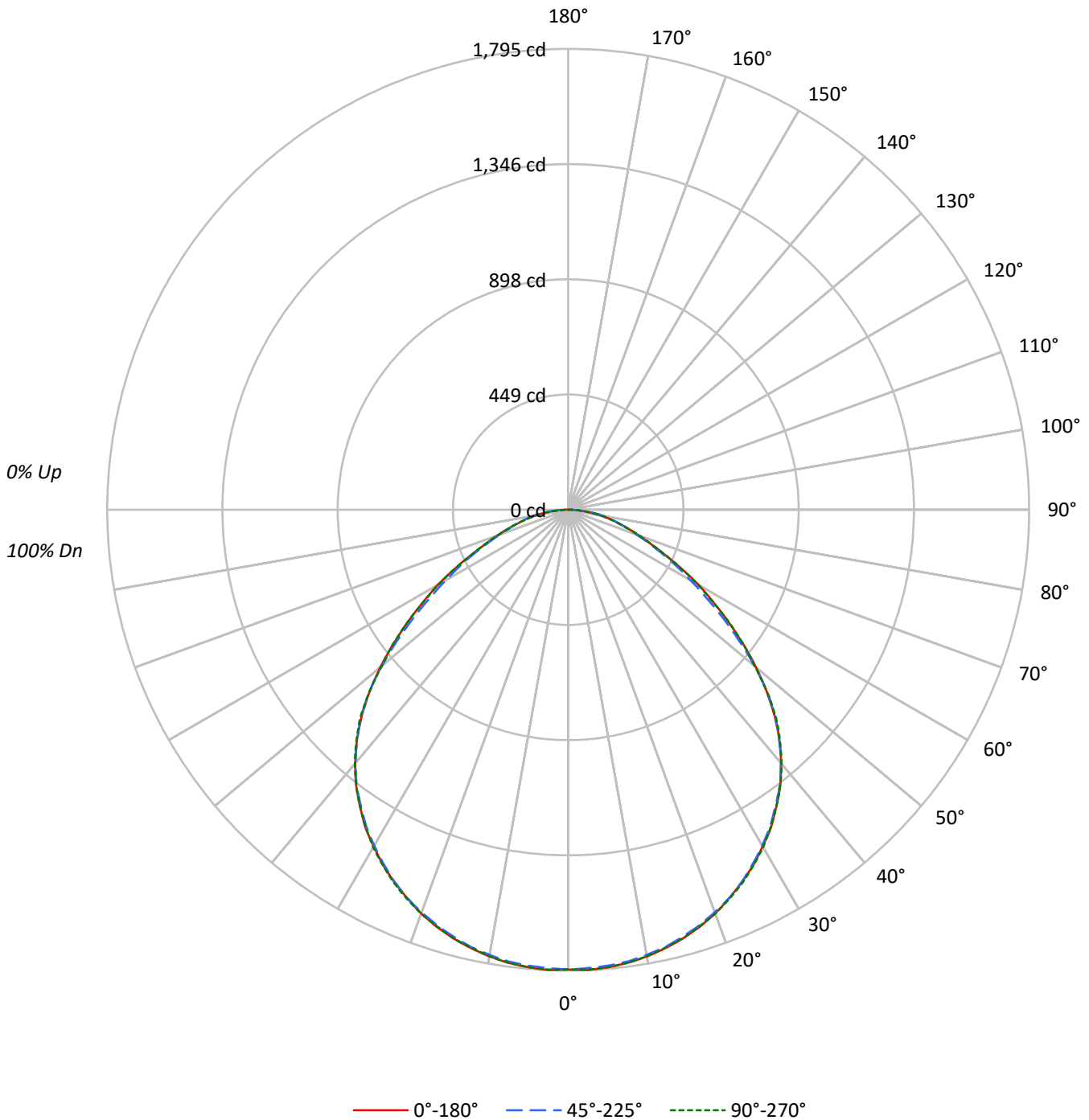
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4515.0 lumens  
Efficiency: N/A  
Efficacy: 127.9 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

TEST NUMBER: P738176  
CATALOG NUMBER: 22PT-45-PB1-L835

### Luminous Intensity Polar Plot





TEST NUMBER: P738176

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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					86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47					47			
6	72	59	51	45	70	59	50	44	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27					27			

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

	0°	45°	90°
0°	5247	5247	5247
5°	5261	5243	5261
10°	5256	5239	5254
15°	5244	5224	5242
20°	5218	5203	5221
25°	5175	5170	5187
30°	5123	5111	5138
35°	5054	5036	5054
40°	4936	4925	4942
45°	4715	4724	4742
50°	4354	4317	4324
55°	3890	3760	3904
60°	3434	3225	3413
65°	2877	2786	2877
70°	2495	2426	2507
75°	2274	2307	2274
80°	2138	2322	2150
85°	1859	2276	1910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.8	3.8
10°-20°	486.9	10.8
20°-30°	737.3	16.3
30°-40°	881.9	19.5
40°-50°	873.2	19.3
50°-60°	671.4	14.9
60°-70°	408.8	9.1
70°-80°	216.4	4.8
80°-90°	69.3	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°	1394.1	30.9
0°-40°	2276.0	50.4
0°-60°	3820.5	84.6
0°-90°	4515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1791	1791	1791	1791	1791	
5°	1789	1788	1783	1786	1789	170
15°	1729	1726	1722	1726	1728	488
25°	1601	1599	1599	1602	1604	738
35°	1413	1412	1408	1412	1413	883
45°	1138	1138	1140	1141	1144	873
55°	761	751	736	749	764	683
65°	415	405	402	401	415	419
75°	201	201	204	202	201	216
85°	55	63	68	64	57	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1790.7	1790.7	1790.7	1790.7	1790.7
2.5°	1795.1	1792.2	1787.1	1790.7	1792.9
5°	1788.6	1787.8	1782.7	1785.7	1788.6
7.5°	1780.6	1778.4	1774.7	1777.6	1779.8
10°	1766.7	1765.3	1760.9	1764.5	1766.0
12.5°	1749.3	1747.8	1744.9	1747.8	1747.1
15°	1728.9	1726.0	1722.3	1726.0	1728.1
17.5°	1703.4	1700.5	1697.6	1699.8	1701.2
20°	1673.5	1669.2	1668.5	1671.4	1674.3
22.5°	1637.9	1637.9	1637.2	1639.3	1640.8
25°	1600.8	1599.3	1599.3	1601.5	1604.4
27.5°	1560.7	1557.8	1556.3	1560.0	1562.2
30°	1514.1	1513.4	1510.5	1516.3	1518.5
32.5°	1469.0	1461.7	1463.2	1466.1	1466.8
35°	1412.9	1411.5	1407.8	1412.2	1412.9
37.5°	1356.2	1355.4	1353.3	1354.7	1355.4
40°	1290.6	1289.9	1287.7	1290.6	1292.1
42.5°	1217.9	1216.4	1216.4	1218.6	1220.8
45°	1137.8	1138.5	1140.0	1140.7	1144.3
47.5°	1048.2	1049.7	1051.2	1049.7	1050.4
50°	955.1	954.3	947.1	952.2	948.5
52.5°	856.8	845.9	840.1	851.7	859.7
55°	761.4	751.2	736.0	749.1	764.3
57.5°	669.7	652.2	636.2	651.5	666.8
60°	586.0	559.1	550.3	559.8	582.4
62.5°	496.5	477.5	474.6	476.1	495.7
65°	414.9	404.7	401.8	401.1	414.9
67.5°	348.0	341.4	337.8	340.7	349.4
70°	291.2	288.3	283.2	288.3	292.6
72.5°	244.6	243.9	239.5	243.9	242.4
75°	200.9	200.9	203.8	202.4	200.9
77.5°	163.8	165.2	170.3	166.0	161.6
80°	126.7	130.3	137.6	131.0	127.4
82.5°	90.3	98.3	106.3	98.3	93.2
85°	55.3	63.3	67.7	64.1	56.8
87.5°	24.0	28.4	29.8	27.7	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)