

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: P738536

Luminaire Tested: **24PT-45-PL1-L835**

Issue Date: 2/8/2024



**Test Information**

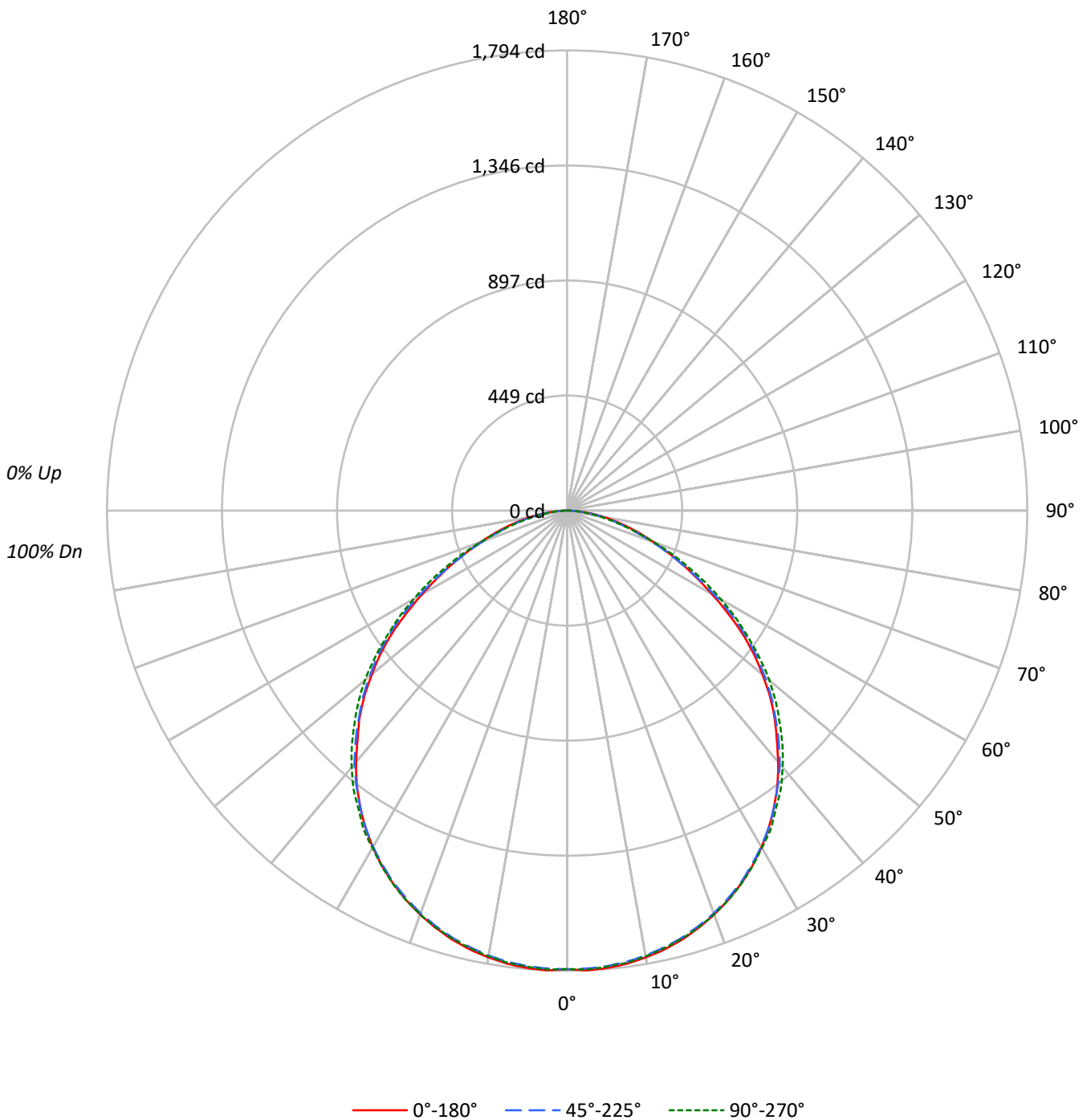
Test Method: LM-79-08  
Report Number: P738536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-45-PL1-L835  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4733.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 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 (Ain): 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	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	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	40	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	2564	2564	2564
5°	2577	2566	2569
10°	2575	2565	2569
15°	2570	2560	2565
20°	2558	2550	2556
25°	2539	2533	2541
30°	2509	2505	2514
35°	2463	2464	2483
40°	2395	2414	2446
45°	2321	2332	2377
50°	2217	2243	2296
55°	2081	2120	2152
60°	1869	1914	1985
65°	1672	1676	1767
70°	1491	1450	1502
75°	1347	1267	1244
80°	1196	1116	984
85°	981	930	770



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.6	3.6
10°-20°	487.0	10.3
20°-30°	737.8	15.6
30°-40°	881.8	18.6
40°-50°	889.5	18.8
50°-60°	754.6	15.9
60°-70°	499.3	10.5
70°-80°	247.8	5.2
80°-90°	65.6	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°	1394.5	29.5
0°-40°	2276.2	48.1
0°-60°	3920.4	82.8
0°-90°	4733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1790	1784	1782	1781	1785	170
15°	1732	1726	1724	1724	1728	488
25°	1605	1601	1601	1600	1606	739
35°	1407	1405	1408	1416	1419	879
45°	1145	1143	1150	1165	1172	881
55°	833	835	848	856	861	740
65°	493	492	494	509	521	492
75°	243	236	229	222	225	260
85°	60	60	56	52	47	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1788.1	1788.1	1788.1	1788.1	1788.1
2.5°	1794.3	1788.6	1787.1	1786.1	1790.2
5°	1790.2	1784.0	1782.5	1781.4	1785.0
7.5°	1781.9	1775.3	1774.2	1773.2	1777.8
10°	1768.6	1762.4	1761.4	1760.4	1764.5
12.5°	1752.6	1746.5	1744.4	1744.9	1747.5
15°	1731.6	1725.9	1724.4	1724.4	1728.0
17.5°	1705.4	1700.2	1699.2	1698.7	1703.3
20°	1676.1	1670.9	1670.9	1672.5	1675.0
22.5°	1642.7	1639.1	1637.0	1638.0	1643.2
25°	1604.6	1601.0	1601.0	1600.5	1606.2
27.5°	1562.5	1557.8	1557.8	1562.0	1564.0
30°	1515.2	1511.1	1513.1	1516.2	1518.3
32.5°	1464.3	1461.7	1463.3	1467.9	1476.1
35°	1407.3	1405.2	1407.8	1415.5	1418.6
37.5°	1347.6	1346.1	1349.7	1360.0	1368.7
40°	1279.8	1279.8	1289.6	1298.8	1307.0
42.5°	1209.4	1214.0	1221.2	1235.6	1242.8
45°	1144.6	1143.1	1149.8	1165.2	1172.4
47.5°	1072.7	1071.1	1080.9	1091.7	1103.5
50°	994.0	993.5	1005.3	1014.6	1029.5
52.5°	917.4	922.1	929.8	938.0	946.7
55°	832.6	834.7	848.1	855.8	860.9
57.5°	741.1	747.8	764.3	775.6	780.2
60°	651.7	655.8	667.6	687.7	692.3
62.5°	570.5	572.1	579.2	601.9	608.0
65°	492.9	491.9	493.9	509.3	520.7
67.5°	422.5	418.4	418.4	426.6	440.5
70°	355.7	349.5	345.9	348.5	358.2
72.5°	299.6	291.4	282.2	280.6	286.8
75°	243.1	236.4	228.7	221.5	224.6
77.5°	193.8	188.1	180.9	172.7	168.6
80°	144.9	142.9	135.2	127.5	119.2
82.5°	101.3	99.7	94.6	88.4	83.3
85°	59.6	59.6	56.5	51.9	46.8
87.5°	26.7	25.7	26.7	22.6	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)