

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: P738552

Luminaire Tested: **24PT-45-PW1-L835**

Issue Date: 2/8/2024



**Test Information**

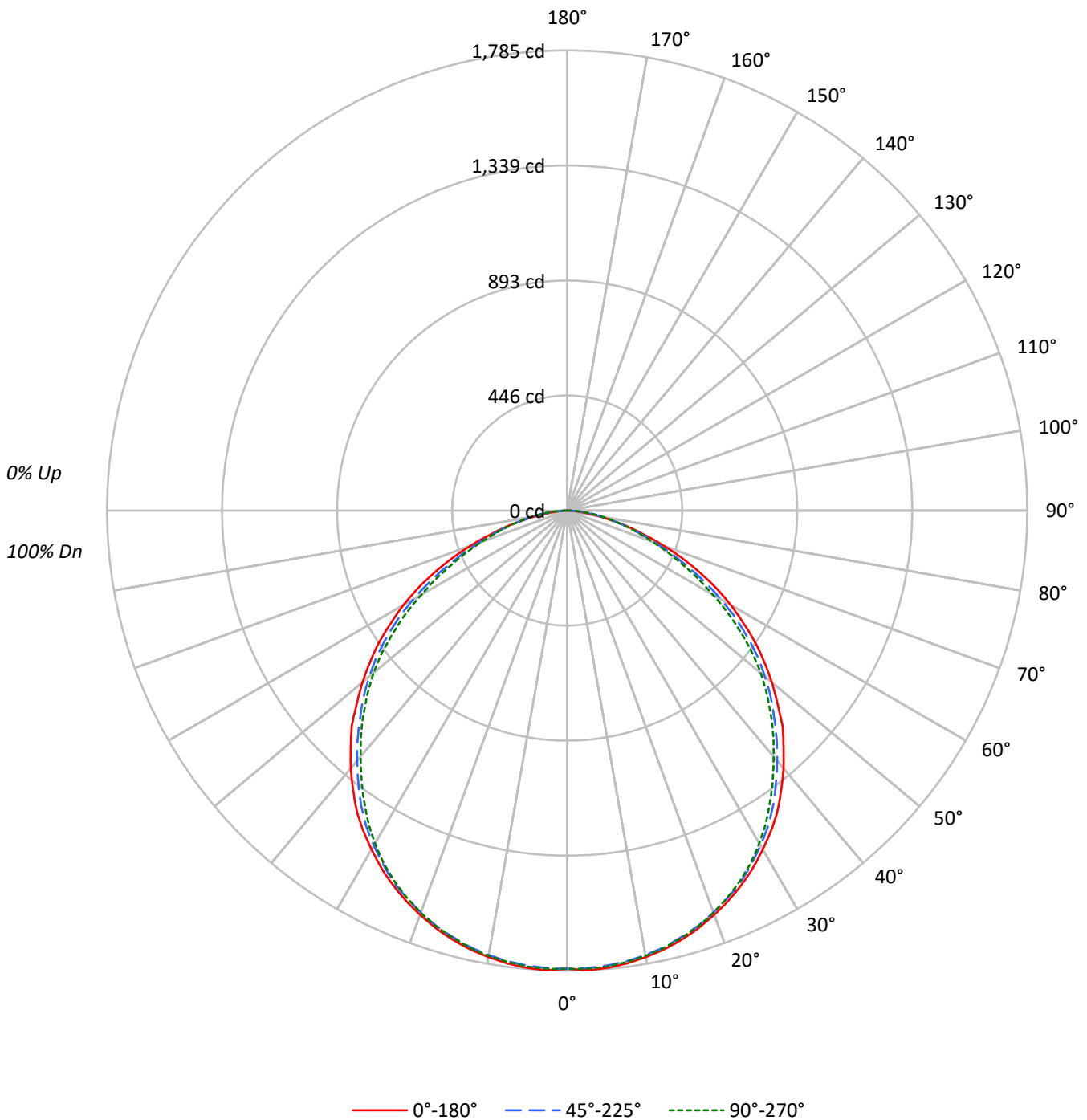
Test Method: LM-79-08  
Report Number: P738552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-45-PW1-L835  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4740.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.24 / 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

TEST NUMBER: P738552  
CATALOG NUMBER: 24PT-45-PW1-L835

### 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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2549	2549	2549
5°	2563	2551	2556
10°	2561	2549	2554
15°	2557	2543	2546
20°	2546	2531	2533
25°	2533	2518	2508
30°	2513	2484	2468
35°	2490	2440	2405
40°	2444	2372	2333
45°	2396	2303	2266
50°	2311	2233	2186
55°	2226	2131	2054
60°	2105	1975	1873
65°	1927	1760	1669
70°	1670	1526	1469
75°	1367	1315	1299
80°	997	1125	1158
85°	668	938	997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.6	3.6
10°-20°	484.0	10.2
20°-30°	732.5	15.5
30°-40°	871.6	18.4
40°-50°	880.4	18.6
50°-60°	761.8	16.1
60°-70°	520.4	11.0
70°-80°	256.5	5.4
80°-90°	64.1	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°	1385.2	29.2
0°-40°	2256.8	47.6
0°-60°	3899.0	82.3
0°-90°	4740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4740.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1781	1774	1772	1770	1776	169
15°	1722	1716	1713	1712	1715	486
25°	1601	1595	1592	1586	1586	738
35°	1423	1411	1394	1378	1374	888
45°	1182	1162	1136	1123	1117	907
55°	891	878	853	835	822	793
65°	568	546	519	502	492	561
75°	247	240	237	236	234	264
85°	41	50	57	59	61	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1777.7	1777.7	1777.7	1777.7	1777.7
2.5°	1784.9	1778.2	1776.1	1774.6	1779.2
5°	1780.8	1774.1	1772.0	1770.5	1775.6
7.5°	1772.0	1765.3	1763.3	1761.8	1765.9
10°	1759.2	1753.0	1751.0	1749.4	1754.0
12.5°	1742.7	1737.1	1734.5	1732.5	1737.6
15°	1722.2	1716.5	1712.9	1711.9	1715.0
17.5°	1697.5	1691.9	1689.3	1687.7	1691.3
20°	1668.7	1662.6	1659.0	1656.9	1660.0
22.5°	1636.9	1630.7	1626.1	1624.0	1625.0
25°	1600.9	1594.7	1591.6	1585.5	1585.5
27.5°	1562.3	1555.2	1547.4	1540.8	1541.3
30°	1517.6	1509.4	1500.2	1491.4	1490.9
32.5°	1472.4	1462.1	1450.8	1439.0	1435.4
35°	1422.6	1410.7	1393.8	1378.4	1374.2
37.5°	1364.0	1353.2	1330.6	1317.7	1311.0
40°	1305.9	1290.5	1267.4	1252.4	1246.3
42.5°	1242.2	1227.3	1202.6	1188.7	1183.6
45°	1181.5	1161.5	1135.8	1122.9	1117.3
47.5°	1106.0	1089.5	1071.5	1056.6	1049.4
50°	1036.1	1022.7	1001.1	984.7	980.1
52.5°	963.1	951.8	931.2	909.7	904.5
55°	890.6	878.3	852.6	834.6	821.8
57.5°	808.9	798.1	774.0	750.9	739.5
60°	733.9	715.4	688.7	663.5	653.2
62.5°	652.2	634.2	603.4	577.7	572.0
65°	567.9	546.3	518.6	501.6	491.8
67.5°	482.6	461.5	438.4	427.6	421.4
70°	398.3	381.3	363.9	356.2	350.5
72.5°	317.1	307.3	297.6	294.5	289.3
75°	246.7	239.5	237.4	235.9	234.4
77.5°	177.8	181.4	183.5	185.5	183.5
80°	120.8	128.5	136.2	140.3	140.3
82.5°	74.5	87.9	94.6	98.7	98.2
85°	40.6	50.4	57.0	59.1	60.6
87.5°	16.4	20.6	23.1	25.2	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)