

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: P738520

Luminaire Tested: **24PT-40-PW1-L835**

Issue Date: 2/8/2024



**Test Information**

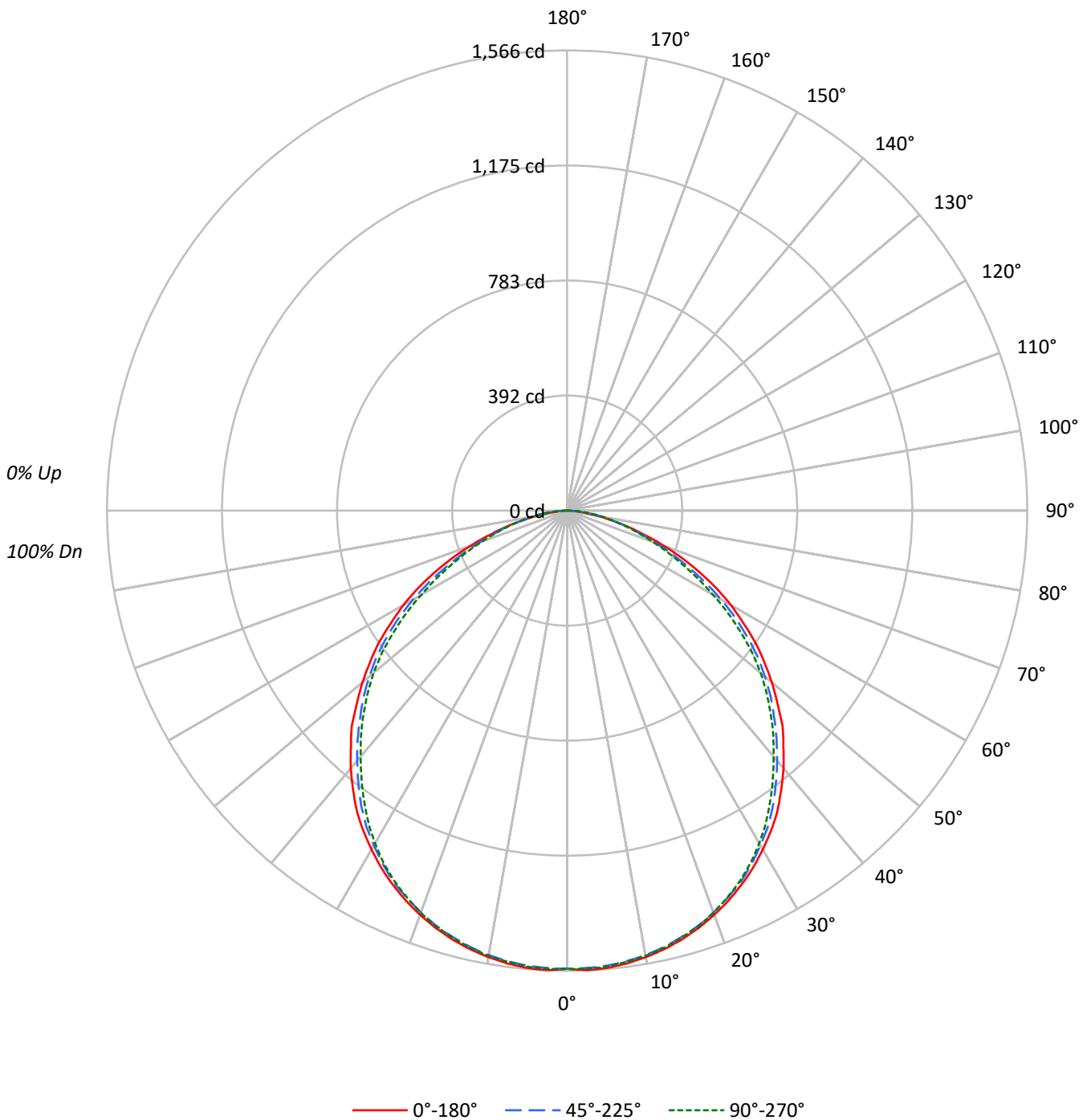
Test Method: LM-79-08  
Report Number: P738520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-40-PW1-L835  
Description: 4000 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: 4158.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 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): 32.7  
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	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°	2236	2236	2236
5°	2248	2237	2242
10°	2247	2236	2240
15°	2243	2231	2233
20°	2234	2221	2222
25°	2222	2209	2200
30°	2204	2179	2165
35°	2184	2140	2110
40°	2144	2081	2046
45°	2102	2020	1987
50°	2027	1959	1918
55°	1953	1870	1802
60°	1846	1732	1643
65°	1690	1543	1464
70°	1465	1338	1289
75°	1199	1154	1139
80°	874	987	1016
85°	586	823	875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.9	3.6
10°-20°	424.6	10.2
20°-30°	642.6	15.5
30°-40°	764.6	18.4
40°-50°	772.3	18.6
50°-60°	668.3	16.1
60°-70°	456.5	11.0
70°-80°	225.0	5.4
80°-90°	56.2	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°	1215.1	29.2
0°-40°	1979.7	47.6
0°-60°	3420.3	82.3
0°-90°	4158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1562	1556	1554	1553	1558	148
15°	1511	1506	1503	1502	1504	426
25°	1404	1399	1396	1391	1391	647
35°	1248	1238	1223	1209	1206	779
45°	1036	1019	996	985	980	796
55°	781	770	748	732	721	696
65°	498	479	455	440	431	492
75°	216	210	208	207	206	231
85°	36	44	50	52	53	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1559.4	1559.4	1559.4	1559.4	1559.4
2.5°	1565.7	1559.9	1558.1	1556.7	1560.8
5°	1562.1	1556.3	1554.5	1553.1	1557.6
7.5°	1554.5	1548.6	1546.8	1545.4	1549.0
10°	1543.2	1537.8	1536.0	1534.6	1538.7
12.5°	1528.8	1523.8	1521.5	1519.7	1524.2
15°	1510.7	1505.8	1502.6	1501.7	1504.4
17.5°	1489.1	1484.1	1481.9	1480.5	1483.7
20°	1463.8	1458.4	1455.3	1453.5	1456.2
22.5°	1435.9	1430.5	1426.4	1424.6	1425.5
25°	1404.3	1398.9	1396.2	1390.8	1390.8
27.5°	1370.5	1364.2	1357.4	1351.6	1352.0
30°	1331.3	1324.1	1316.0	1308.3	1307.8
32.5°	1291.6	1282.6	1272.7	1262.3	1259.2
35°	1247.9	1237.5	1222.6	1209.1	1205.5
37.5°	1196.5	1187.0	1167.2	1155.9	1150.1
40°	1145.6	1132.0	1111.7	1098.7	1093.3
42.5°	1089.6	1076.6	1054.9	1042.8	1038.3
45°	1036.5	1018.9	996.3	985.1	980.1
47.5°	970.2	955.8	940.0	926.9	920.6
50°	908.9	897.1	878.2	863.8	859.7
52.5°	844.8	834.9	816.9	798.0	793.5
55°	781.3	770.5	747.9	732.1	720.9
57.5°	709.6	700.1	678.9	658.7	648.7
60°	643.8	627.6	604.1	582.0	573.0
62.5°	572.1	556.3	529.3	506.7	501.8
65°	498.2	479.2	454.9	440.0	431.4
67.5°	423.3	404.8	384.6	375.1	369.7
70°	349.4	334.5	319.2	312.4	307.5
72.5°	278.2	269.6	261.0	258.3	253.8
75°	216.4	210.1	208.3	206.9	205.6
77.5°	156.0	159.1	160.9	162.7	160.9
80°	105.9	112.7	119.5	123.1	123.1
82.5°	65.4	77.1	83.0	86.6	86.1
85°	35.6	44.2	50.0	51.8	53.2
87.5°	14.4	18.0	20.3	22.1	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)