

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: P738522

Luminaire Tested: **24PT-40-PW1-L850**

Issue Date: 2/8/2024



**Test Information**

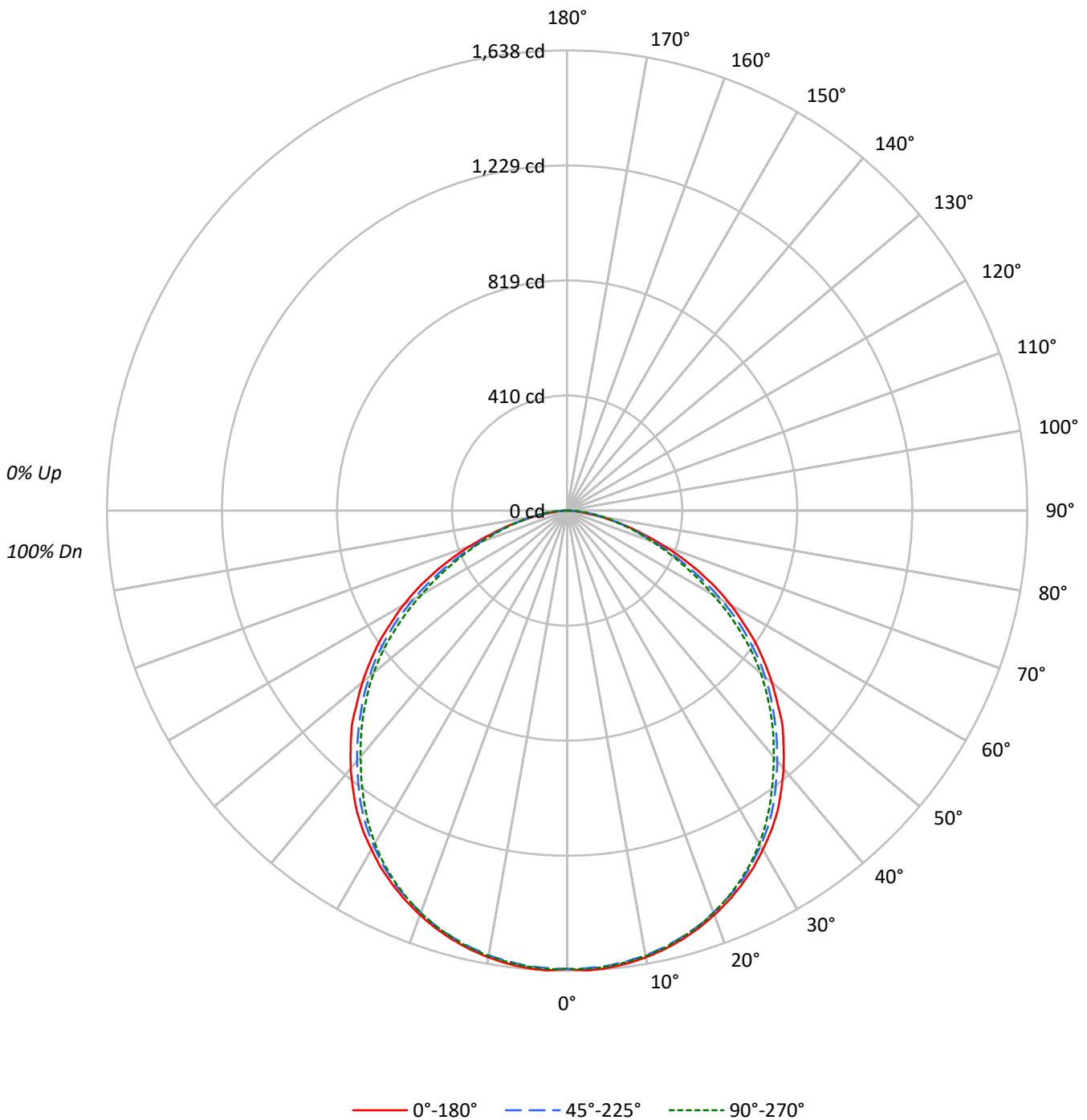
Test Method: LM-79-08  
Report Number: P738522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-40-PW1-L850  
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4351.0 lumens  
Efficiency: N/A  
Efficacy: 133.1 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°	2340	2340	2340
5°	2353	2341	2346
10°	2351	2340	2344
15°	2347	2334	2337
20°	2337	2324	2325
25°	2325	2311	2303
30°	2307	2280	2266
35°	2286	2239	2208
40°	2244	2177	2141
45°	2199	2114	2080
50°	2122	2050	2007
55°	2044	1956	1886
60°	1932	1813	1719
65°	1769	1615	1532
70°	1533	1400	1349
75°	1254	1207	1192
80°	916	1032	1064
85°	614	862	916



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.8	3.6
10°-20°	444.3	10.2
20°-30°	672.4	15.5
30°-40°	800.1	18.4
40°-50°	808.2	18.6
50°-60°	699.3	16.1
60°-70°	477.7	11.0
70°-80°	235.4	5.4
80°-90°	58.8	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°	1271.5	29.2
0°-40°	2071.6	47.6
0°-60°	3579.0	82.3
0°-90°	4351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4351.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1635	1628	1627	1625	1630	155
15°	1581	1576	1572	1571	1574	446
25°	1470	1464	1461	1455	1455	677
35°	1306	1295	1279	1265	1262	815
45°	1085	1066	1043	1031	1026	833
55°	818	806	783	766	754	728
65°	521	502	476	460	452	515
75°	226	220	218	216	215	242
85°	37	46	52	54	56	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1631.8	1631.8	1631.8	1631.8	1631.8
2.5°	1638.4	1632.3	1630.4	1629.0	1633.2
5°	1634.6	1628.5	1626.6	1625.2	1629.9
7.5°	1626.6	1620.5	1618.6	1617.2	1620.9
10°	1614.8	1609.1	1607.3	1605.8	1610.1
12.5°	1599.7	1594.5	1592.2	1590.3	1595.0
15°	1580.8	1575.7	1572.4	1571.4	1574.2
17.5°	1558.2	1553.0	1550.7	1549.2	1552.5
20°	1531.8	1526.1	1522.8	1520.9	1523.8
22.5°	1502.5	1496.9	1492.6	1490.7	1491.7
25°	1469.5	1463.8	1461.0	1455.4	1455.4
27.5°	1434.1	1427.5	1420.4	1414.3	1414.8
30°	1393.1	1385.5	1377.0	1369.0	1368.6
32.5°	1351.6	1342.1	1331.8	1320.9	1317.6
35°	1305.8	1295.0	1279.4	1265.2	1261.5
37.5°	1252.0	1242.1	1221.4	1209.6	1203.4
40°	1198.7	1184.6	1163.3	1149.7	1144.0
42.5°	1140.2	1126.5	1103.9	1091.2	1086.4
45°	1084.6	1066.2	1042.6	1030.8	1025.6
47.5°	1015.2	1000.1	983.6	969.9	963.3
50°	951.1	938.8	919.0	903.9	899.6
52.5°	884.1	873.7	854.8	835.0	830.3
55°	817.5	806.2	782.6	766.1	754.3
57.5°	742.5	732.6	710.5	689.2	678.9
60°	673.7	656.7	632.1	609.0	599.6
62.5°	598.7	582.1	553.8	530.3	525.1
65°	521.3	501.5	476.0	460.4	451.5
67.5°	443.0	423.6	402.4	392.5	386.8
70°	365.6	350.0	334.0	326.9	321.7
72.5°	291.1	282.1	273.1	270.3	265.6
75°	226.4	219.8	217.9	216.5	215.1
77.5°	163.2	166.5	168.4	170.3	168.4
80°	110.9	117.9	125.0	128.8	128.8
82.5°	68.4	80.7	86.8	90.6	90.1
85°	37.3	46.2	52.4	54.3	55.7
87.5°	15.1	18.9	21.2	23.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)