

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: P738498

Luminaire Tested: **24PT-40-PC3-L850**

Issue Date: 2/8/2024



**Test Information**

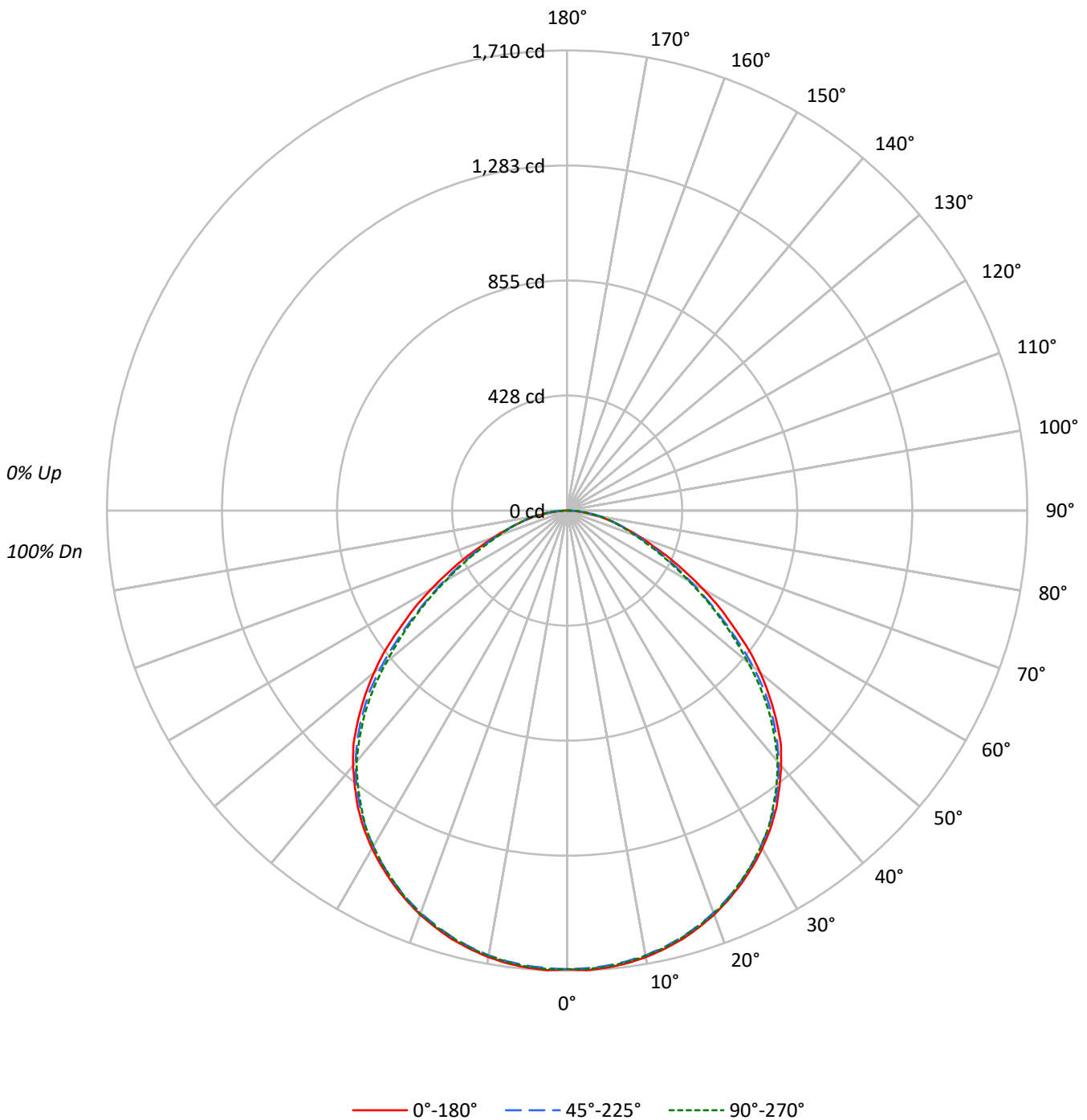
Test Method: LM-79-08  
Report Number: P738498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-40-PC3-L850  
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4298.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 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 (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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67		75	70	65		72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57		67	61	57		65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50		61	54	50		59	53	49	47
6	72	59	51	45	70	59	50	44	57	50	44		55	49	44		54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39		50	44	39		49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39	33	29	27

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

	0°	45°	90°
0°	2443	2443	2443
5°	2454	2444	2448
10°	2454	2443	2446
15°	2448	2437	2440
20°	2439	2427	2432
25°	2422	2410	2409
30°	2401	2385	2385
35°	2369	2350	2339
40°	2316	2288	2278
45°	2226	2185	2154
50°	2090	2010	1957
55°	1890	1762	1728
60°	1671	1524	1495
65°	1429	1321	1287
70°	1211	1159	1125
75°	1061	1080	1043
80°	951	1049	991
85°	803	959	913



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.6	3.8
10°-20°	463.7	10.8
20°-30°	702.5	16.3
30°-40°	839.0	19.5
40°-50°	827.7	19.3
50°-60°	640.7	14.9
60°-70°	393.8	9.2
70°-80°	206.4	4.8
80°-90°	62.5	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°	1327.8	30.9
0°-40°	2166.8	50.4
0°-60°	3635.2	84.6
0°-90°	4298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1705	1700	1698	1697	1701	162
15°	1649	1644	1642	1640	1644	465
25°	1531	1526	1523	1522	1523	705
35°	1353	1347	1342	1338	1336	845
45°	1098	1090	1077	1066	1062	845
55°	756	736	705	694	691	678
65°	421	402	389	378	379	420
75°	192	194	195	191	188	206
85°	49	54	58	57	56	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1703.9	1703.9	1703.9	1703.9	1703.9
2.5°	1709.6	1704.4	1702.0	1701.5	1705.3
5°	1704.9	1699.6	1697.7	1696.8	1701.1
7.5°	1697.3	1691.6	1689.7	1688.3	1692.0
10°	1685.4	1679.7	1677.8	1676.9	1680.2
12.5°	1668.3	1663.1	1661.7	1660.3	1664.5
15°	1649.4	1644.2	1641.8	1640.4	1643.7
17.5°	1624.7	1620.4	1617.6	1617.6	1620.4
20°	1598.2	1592.9	1590.6	1589.1	1593.9
22.5°	1565.4	1562.1	1559.3	1556.9	1562.1
25°	1530.8	1526.1	1523.2	1522.3	1522.7
27.5°	1491.4	1488.1	1484.3	1482.9	1483.9
30°	1450.2	1445.9	1440.7	1437.9	1440.2
32.5°	1404.2	1398.0	1393.8	1390.9	1394.2
35°	1353.4	1347.3	1342.5	1338.3	1336.4
37.5°	1295.6	1293.7	1287.1	1279.5	1279.0
40°	1237.3	1232.0	1222.6	1219.2	1216.9
42.5°	1174.7	1163.8	1153.8	1144.3	1141.0
45°	1097.8	1089.8	1077.4	1066.1	1062.3
47.5°	1019.1	1008.7	996.8	976.9	974.5
50°	937.1	921.9	901.0	884.4	877.3
52.5°	851.7	831.3	802.4	788.2	784.4
55°	755.9	735.5	704.7	694.3	691.4
57.5°	670.6	640.7	615.5	603.7	607.5
60°	582.8	553.9	531.6	520.2	521.2
62.5°	497.0	474.2	457.6	446.7	448.1
65°	421.1	401.7	389.3	378.0	379.4
67.5°	346.7	337.7	328.6	322.0	318.2
70°	288.8	285.0	276.5	270.3	268.4
72.5°	236.2	238.5	231.4	229.5	229.1
75°	191.6	193.5	194.9	191.1	188.3
77.5°	153.2	156.0	161.7	156.5	155.5
80°	115.2	120.9	127.1	123.8	120.0
82.5°	80.6	87.7	93.4	89.2	87.3
85°	48.8	54.5	58.3	56.9	55.5
87.5°	21.8	23.7	25.6	26.1	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)