

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: P738565

Luminaire Tested: **24PT-50-PC3-L940**

Issue Date: 2/8/2024



**Test Information**

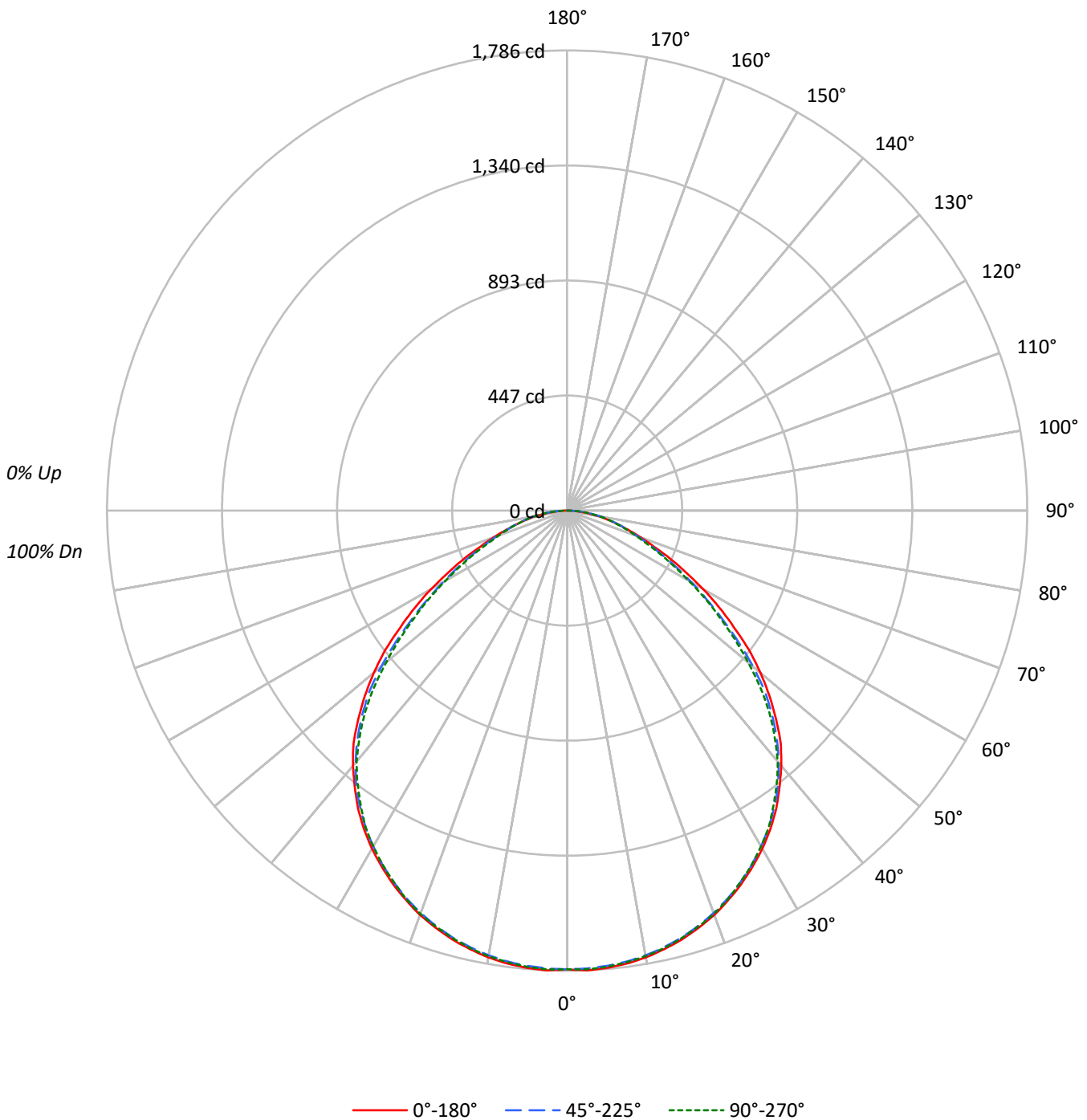
Test Method: LM-79-08  
Report Number: P738565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PC3-L940  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND PARAMID LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4491.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 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): 41  
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	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					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°	2553	2553	2553
5°	2564	2553	2558
10°	2564	2553	2556
15°	2558	2547	2550
20°	2548	2536	2541
25°	2531	2518	2517
30°	2509	2492	2492
35°	2475	2455	2444
40°	2420	2391	2380
45°	2326	2283	2251
50°	2184	2100	2045
55°	1975	1841	1806
60°	1746	1593	1562
65°	1493	1380	1345
70°	1265	1211	1176
75°	1109	1129	1090
80°	994	1097	1035
85°	839	1002	954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.8	3.8
10°-20°	484.6	10.8
20°-30°	734.0	16.3
30°-40°	876.7	19.5
40°-50°	864.9	19.3
50°-60°	669.5	14.9
60°-70°	411.5	9.2
70°-80°	215.6	4.8
80°-90°	65.4	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°	1387.4	30.9
0°-40°	2264.1	50.4
0°-60°	3798.5	84.6
0°-90°	4491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4491.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1781	1776	1774	1773	1777	169
15°	1723	1718	1716	1714	1718	486
25°	1600	1595	1592	1591	1591	737
35°	1414	1408	1403	1398	1396	883
45°	1147	1139	1126	1114	1110	882
55°	790	769	736	725	722	709
65°	440	420	407	395	396	439
75°	200	202	204	200	197	216
85°	51	57	61	60	58	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1780.4	1780.4	1780.4	1780.4	1780.4
2.5°	1786.4	1780.9	1778.4	1777.9	1781.9
5°	1781.4	1776.0	1774.0	1773.0	1777.4
7.5°	1773.5	1767.5	1765.6	1764.1	1768.0
10°	1761.1	1755.1	1753.2	1752.2	1755.6
12.5°	1743.3	1737.8	1736.3	1734.8	1739.3
15°	1723.4	1718.0	1715.5	1714.0	1717.5
17.5°	1697.7	1693.2	1690.2	1690.2	1693.2
20°	1669.9	1664.5	1662.0	1660.5	1665.5
22.5°	1635.7	1632.3	1629.3	1626.8	1632.3
25°	1599.6	1594.6	1591.6	1590.6	1591.1
27.5°	1558.4	1555.0	1551.0	1549.5	1550.5
30°	1515.3	1510.9	1505.4	1502.4	1504.9
32.5°	1467.2	1460.8	1456.3	1453.4	1456.8
35°	1414.2	1407.8	1402.8	1398.4	1396.4
37.5°	1353.8	1351.8	1344.9	1336.9	1336.4
40°	1292.8	1287.4	1277.5	1274.0	1271.5
42.5°	1227.4	1216.0	1205.6	1195.7	1192.2
45°	1147.1	1138.7	1125.8	1113.9	1110.0
47.5°	1064.9	1054.0	1041.6	1020.8	1018.3
50°	979.2	963.3	941.5	924.2	916.7
52.5°	890.0	868.7	838.4	823.6	819.6
55°	789.9	768.6	736.3	725.4	722.5
57.5°	700.7	669.5	643.2	630.8	634.8
60°	609.0	578.8	555.5	543.6	544.6
62.5°	519.3	495.5	478.2	466.8	468.3
65°	440.0	419.7	406.8	394.9	396.4
67.5°	362.2	352.8	343.4	336.5	332.5
70°	301.8	297.8	288.9	282.4	280.5
72.5°	246.8	249.2	241.8	239.8	239.3
75°	200.2	202.2	203.7	199.7	196.7
77.5°	160.1	163.0	169.0	163.5	162.5
80°	120.4	126.4	132.8	129.3	125.4
82.5°	84.2	91.7	97.6	93.2	91.2
85°	51.0	57.0	60.9	59.5	58.0
87.5°	22.8	24.8	26.8	27.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)