

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: P738571

Luminaire Tested: **24PT-50-PL1-L930**

Issue Date: 2/8/2024



**Test Information**

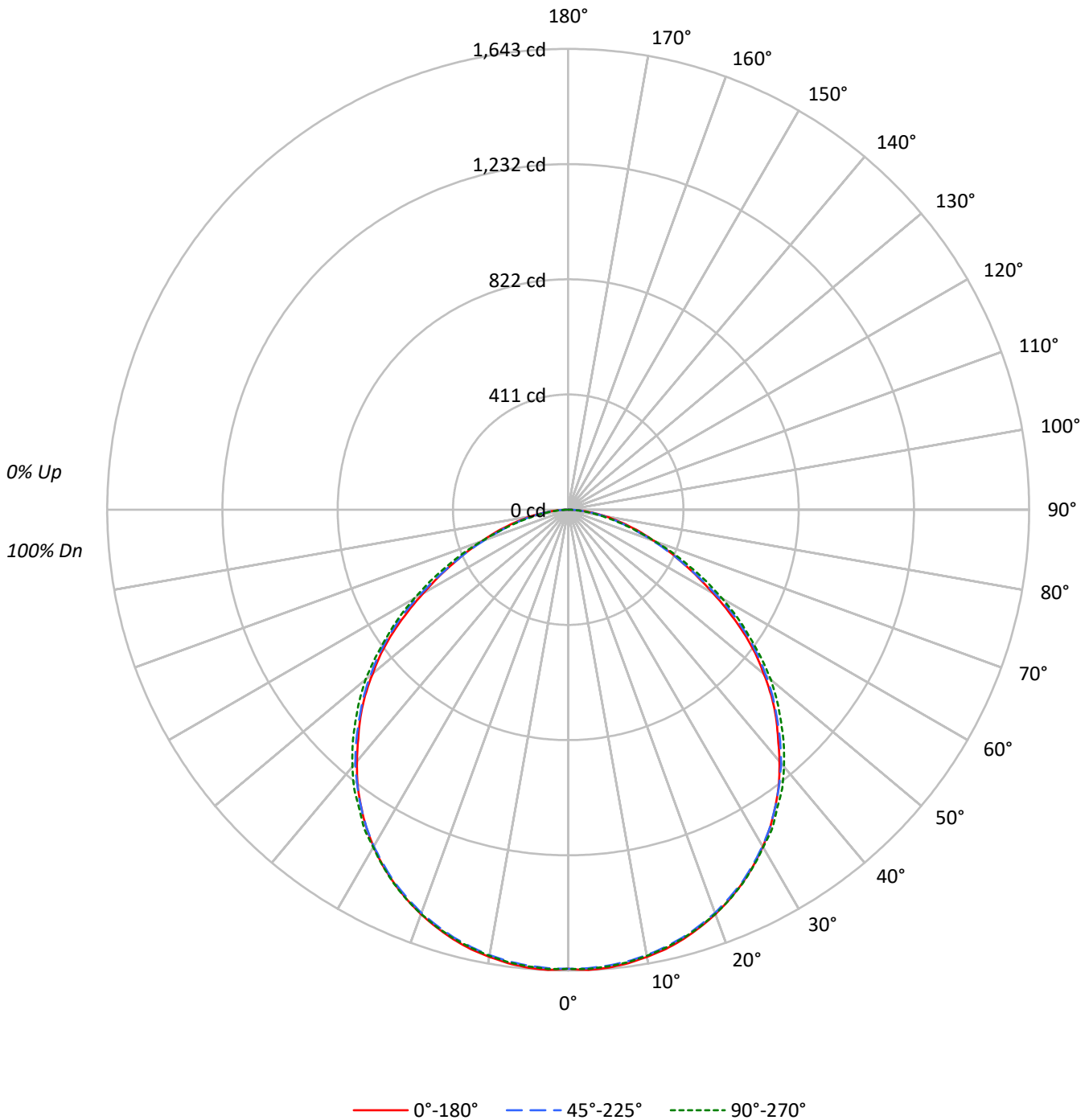
Test Method: LM-79-08  
Report Number: P738571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PL1-L930  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4333.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 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	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	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56		66	60	55		64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49		60	53	48		58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

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

	0°	45°	90°
0°	2347	2347	2347
5°	2359	2349	2352
10°	2357	2348	2352
15°	2353	2343	2348
20°	2341	2334	2340
25°	2324	2319	2326
30°	2297	2294	2301
35°	2255	2256	2273
40°	2193	2210	2240
45°	2125	2134	2176
50°	2030	2053	2102
55°	1906	1941	1970
60°	1711	1753	1818
65°	1531	1534	1617
70°	1365	1328	1375
75°	1233	1160	1139
80°	1096	1022	902
85°	898	852	704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.3	3.6
10°-20°	445.9	10.3
20°-30°	675.5	15.6
30°-40°	807.2	18.6
40°-50°	814.3	18.8
50°-60°	690.9	15.9
60°-70°	457.1	10.5
70°-80°	226.8	5.2
80°-90°	60.0	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°	1276.6	29.5
0°-40°	2083.8	48.1
0°-60°	3589.0	82.8
0°-90°	4333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1637	1637	1637	1637	1637	
5°	1639	1633	1632	1631	1634	156
15°	1585	1580	1579	1579	1582	447
25°	1469	1466	1466	1465	1470	677
35°	1288	1286	1289	1296	1299	805
45°	1048	1046	1053	1067	1073	806
55°	762	764	776	783	788	678
65°	451	450	452	466	477	450
75°	223	216	209	203	206	238
85°	55	55	52	48	43	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1637.0	1637.0	1637.0	1637.0	1637.0
2.5°	1642.6	1637.5	1636.0	1635.1	1638.9
5°	1638.9	1633.2	1631.8	1630.9	1634.2
7.5°	1631.3	1625.2	1624.3	1623.3	1627.6
10°	1619.1	1613.5	1612.5	1611.6	1615.3
12.5°	1604.5	1598.9	1597.0	1597.5	1599.8
15°	1585.2	1580.1	1578.6	1578.6	1581.9
17.5°	1561.2	1556.5	1555.6	1555.1	1559.4
20°	1534.4	1529.7	1529.7	1531.1	1533.5
22.5°	1503.8	1500.5	1498.7	1499.6	1504.3
25°	1469.0	1465.7	1465.7	1465.2	1470.4
27.5°	1430.4	1426.2	1426.2	1430.0	1431.8
30°	1387.1	1383.4	1385.3	1388.1	1390.0
32.5°	1340.6	1338.2	1339.6	1343.8	1351.4
35°	1288.3	1286.4	1288.8	1295.9	1298.7
37.5°	1233.7	1232.3	1235.6	1245.0	1253.0
40°	1171.6	1171.6	1180.6	1189.0	1196.6
42.5°	1107.2	1111.4	1118.0	1131.2	1137.8
45°	1047.9	1046.5	1052.6	1066.7	1073.3
47.5°	982.0	980.6	989.5	999.4	1010.2
50°	910.0	909.5	920.4	928.8	942.5
52.5°	839.9	844.1	851.2	858.7	866.7
55°	762.3	764.1	776.4	783.4	788.1
57.5°	678.5	684.6	699.7	710.0	714.3
60°	596.6	600.4	611.2	629.6	633.8
62.5°	522.3	523.7	530.3	551.0	556.6
65°	451.2	450.3	452.2	466.3	476.7
67.5°	386.8	383.0	383.0	390.5	403.2
70°	325.6	320.0	316.7	319.0	328.0
72.5°	274.3	266.8	258.3	256.9	262.6
75°	222.6	216.4	209.4	202.8	205.6
77.5°	177.4	172.2	165.6	158.1	154.3
80°	132.7	130.8	123.8	116.7	109.2
82.5°	92.7	91.3	86.6	80.9	76.2
85°	54.6	54.6	51.8	47.5	42.8
87.5°	24.5	23.5	24.5	20.7	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)