

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: P738718

Luminaire Tested: **24PT-90-PW1-L950**

Issue Date: 2/8/2024



**Test Information**

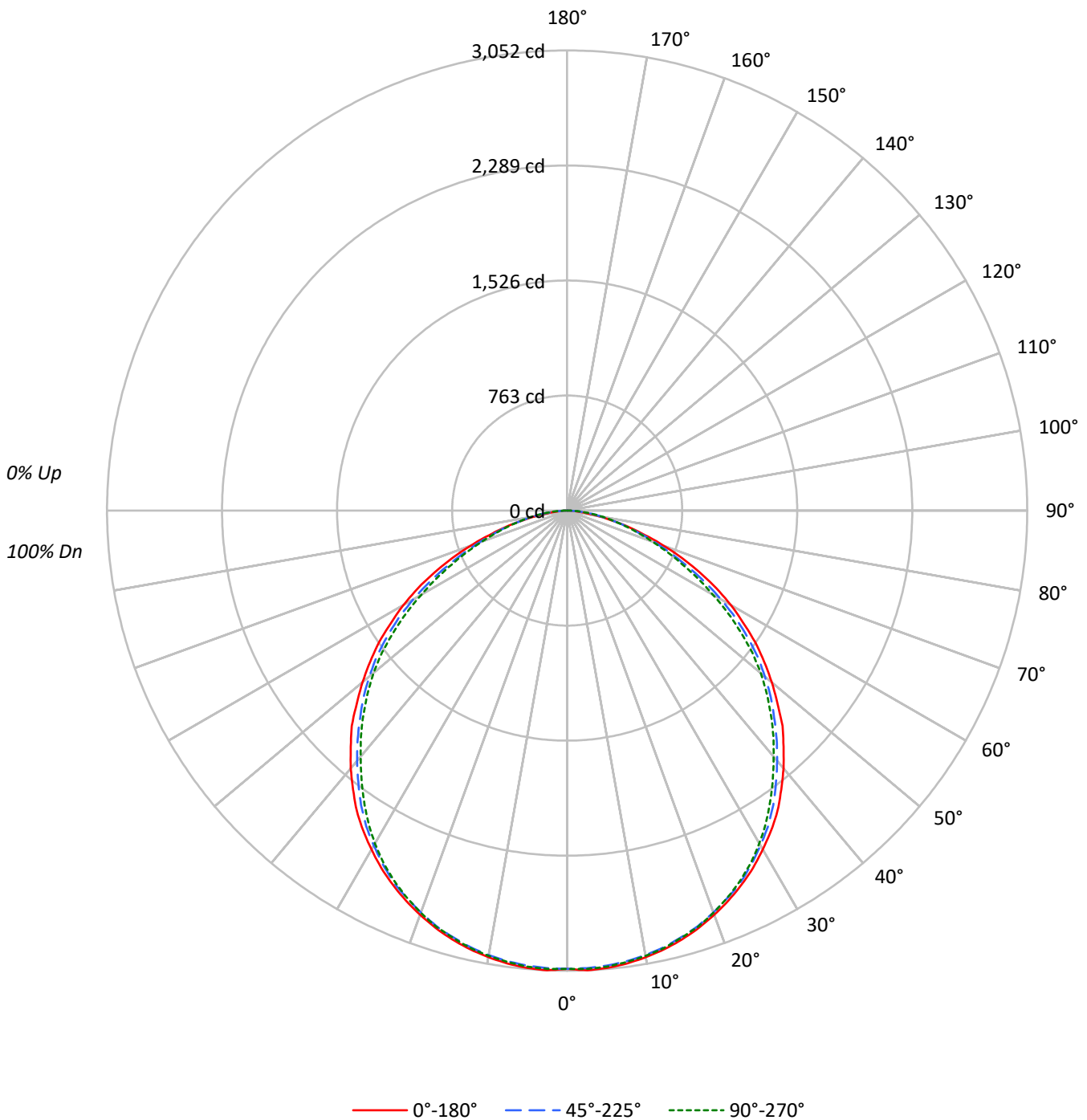
Test Method: LM-79-08  
Report Number: P738718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-90-PW1-L950  
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 90 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8105.0 lumens  
Efficiency: N/A  
Efficacy: 107.1 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): 75.7  
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	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°	4359	4359	4359
5°	4383	4361	4370
10°	4380	4359	4367
15°	4371	4348	4353
20°	4354	4328	4331
25°	4331	4306	4289
30°	4296	4247	4221
35°	4258	4172	4113
40°	4180	4056	3989
45°	4097	3938	3874
50°	3952	3819	3738
55°	3807	3645	3513
60°	3599	3377	3203
65°	3294	3008	2853
70°	2855	2608	2512
75°	2337	2249	2220
80°	1705	1923	1981
85°	1142	1604	1706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.3	3.6
10°-20°	827.6	10.2
20°-30°	1252.6	15.5
30°-40°	1490.4	18.4
40°-50°	1505.5	18.6
50°-60°	1302.6	16.1
60°-70°	889.9	11.0
70°-80°	438.5	5.4
80°-90°	109.6	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°	2368.5	29.2
0°-40°	3858.9	47.6
0°-60°	6667.0	82.3
0°-90°	8105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3040	3040	3040	3040	3040	
5°	3045	3034	3030	3027	3036	289
15°	2945	2935	2929	2927	2932	831
25°	2737	2727	2722	2711	2711	1262
35°	2432	2412	2383	2357	2350	1518
45°	2020	1986	1942	1920	1910	1551
55°	1523	1502	1458	1427	1405	1356
65°	971	934	887	858	841	959
75°	422	410	406	403	401	451
85°	69	86	98	101	104	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3039.7	3039.7	3039.7	3039.7	3039.7
2.5°	3052.0	3040.6	3037.1	3034.4	3042.3
5°	3045.0	3033.5	3030.0	3027.4	3036.2
7.5°	3030.0	3018.6	3015.1	3012.4	3019.5
10°	3008.1	2997.5	2994.0	2991.4	2999.3
12.5°	2979.9	2970.3	2965.9	2962.4	2971.1
15°	2944.8	2935.1	2929.0	2927.2	2932.5
17.5°	2902.6	2892.9	2888.5	2885.9	2892.1
20°	2853.4	2842.8	2836.7	2833.2	2838.4
22.5°	2798.9	2788.4	2780.4	2776.9	2778.7
25°	2737.4	2726.8	2721.6	2711.0	2711.0
27.5°	2671.5	2659.2	2646.0	2634.6	2635.5
30°	2595.0	2581.0	2565.1	2550.2	2549.3
32.5°	2517.7	2500.1	2480.8	2460.6	2454.4
35°	2432.5	2412.2	2383.2	2356.9	2349.8
37.5°	2332.3	2313.8	2275.2	2253.2	2241.8
40°	2233.0	2206.6	2167.1	2141.6	2131.0
42.5°	2124.0	2098.5	2056.3	2032.6	2023.8
45°	2020.3	1986.0	1942.1	1920.1	1910.5
47.5°	1891.1	1863.0	1832.2	1806.8	1794.5
50°	1771.6	1748.8	1711.9	1683.7	1675.8
52.5°	1646.8	1627.5	1592.3	1555.4	1546.6
55°	1522.9	1501.8	1457.9	1427.1	1405.2
57.5°	1383.2	1364.7	1323.4	1283.9	1264.6
60°	1254.9	1223.3	1177.6	1134.5	1116.9
62.5°	1115.2	1084.4	1031.7	987.7	978.1
65°	971.0	934.1	886.7	857.7	841.0
67.5°	825.2	789.1	749.6	731.1	720.6
70°	681.1	652.1	622.2	609.0	599.3
72.5°	542.2	525.5	508.8	503.5	494.8
75°	421.8	409.5	406.0	403.4	400.7
77.5°	304.1	310.2	313.7	317.2	313.7
80°	206.5	219.7	232.9	239.9	239.9
82.5°	127.4	150.3	161.7	168.7	167.8
85°	69.4	86.1	97.5	101.1	103.7
87.5°	28.1	35.2	39.5	43.1	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)