

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: P738681

Luminaire Tested: **24PT-80-PW1-L840**

Issue Date: 2/8/2024



**Test Information**

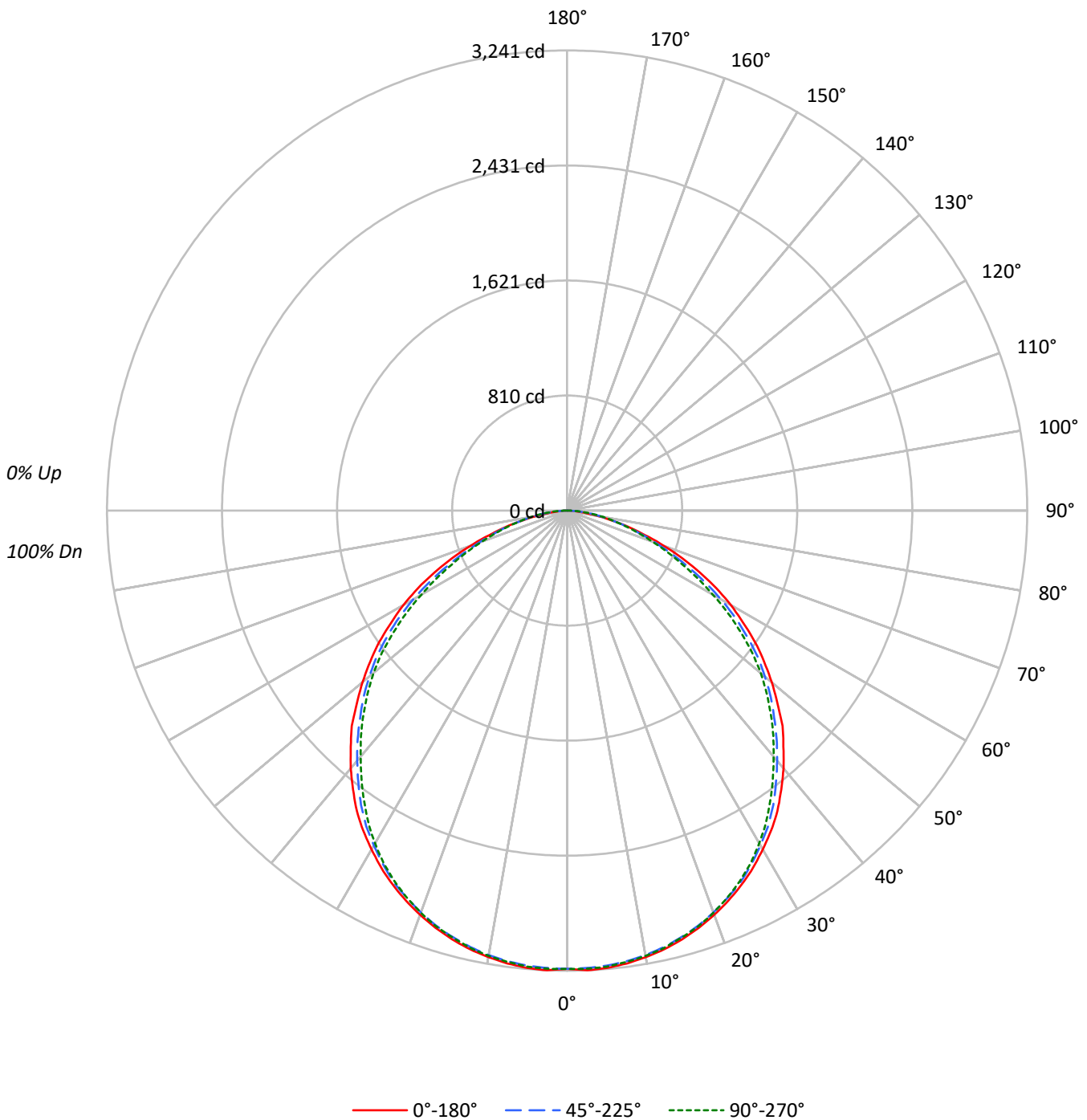
Test Method: LM-79-08  
Report Number: P738681  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-80-PW1-L840  
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8606.0 lumens  
Efficiency: N/A  
Efficacy: 126.0 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): 68.3  
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°	4628	4628	4628
5°	4654	4631	4640
10°	4650	4629	4637
15°	4642	4617	4622
20°	4623	4596	4599
25°	4599	4572	4554
30°	4562	4510	4482
35°	4521	4430	4367
40°	4438	4307	4235
45°	4350	4181	4114
50°	4196	4055	3969
55°	4043	3870	3730
60°	3821	3586	3401
65°	3498	3194	3030
70°	3032	2769	2668
75°	2481	2388	2357
80°	1811	2042	2103
85°	1212	1704	1811



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.1	3.6
10°-20°	878.8	10.2
20°-30°	1330.0	15.5
30°-40°	1582.5	18.4
40°-50°	1598.5	18.6
50°-60°	1383.2	16.1
60°-70°	944.9	11.0
70°-80°	465.6	5.4
80°-90°	116.4	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°	2514.9	29.2
0°-40°	4097.4	47.6
0°-60°	7079.1	82.3
0°-90°	8606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8606.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3228	3228	3228	3228	3228	
5°	3233	3221	3217	3214	3224	307
15°	3127	3116	3110	3108	3114	882
25°	2907	2895	2890	2879	2879	1340
35°	2583	2561	2531	2503	2495	1612
45°	2145	2109	2062	2039	2029	1647
55°	1617	1595	1548	1515	1492	1440
65°	1031	992	942	911	893	1018
75°	448	435	431	428	426	479
85°	74	91	104	107	110	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3227.6	3227.6	3227.6	3227.6	3227.6
2.5°	3240.6	3228.5	3224.8	3222.0	3230.4
5°	3233.2	3221.1	3217.3	3214.5	3223.9
7.5°	3217.3	3205.2	3201.5	3198.7	3206.1
10°	3194.0	3182.8	3179.1	3176.3	3184.7
12.5°	3164.1	3153.9	3149.2	3145.5	3154.8
15°	3126.8	3116.5	3110.0	3108.1	3113.7
17.5°	3082.0	3071.8	3067.1	3064.3	3070.8
20°	3029.8	3018.6	3012.0	3008.3	3013.9
22.5°	2971.9	2960.7	2952.3	2948.6	2950.5
25°	2906.6	2895.4	2889.8	2878.6	2878.6
27.5°	2836.6	2823.6	2809.6	2797.4	2798.4
30°	2755.4	2740.5	2723.7	2707.8	2706.9
32.5°	2673.3	2654.7	2634.1	2612.7	2606.1
35°	2582.8	2561.4	2530.6	2502.6	2495.1
37.5°	2476.4	2456.8	2415.8	2392.5	2380.3
40°	2371.0	2343.0	2301.0	2274.0	2262.8
42.5°	2255.3	2228.2	2183.4	2158.3	2148.9
45°	2145.2	2108.8	2062.1	2038.8	2028.6
47.5°	2008.0	1978.2	1945.5	1918.4	1905.4
50°	1881.1	1856.9	1817.7	1787.8	1779.4
52.5°	1748.6	1728.1	1690.8	1651.6	1642.3
55°	1617.1	1594.7	1548.0	1515.3	1492.0
57.5°	1468.7	1449.1	1405.2	1363.3	1342.7
60°	1332.5	1298.9	1250.4	1204.6	1186.0
62.5°	1184.1	1151.4	1095.5	1048.8	1038.5
65°	1031.1	991.9	941.5	910.7	893.0
67.5°	876.2	837.9	795.9	776.3	765.1
70°	723.2	692.4	660.6	646.6	636.4
72.5°	575.7	558.0	540.3	534.7	525.3
75°	447.9	434.8	431.1	428.3	425.5
77.5°	322.9	329.4	333.1	336.8	333.1
80°	219.3	233.3	247.3	254.7	254.7
82.5°	135.3	159.6	171.7	179.2	178.2
85°	73.7	91.4	103.6	107.3	110.1
87.5°	29.9	37.3	42.0	45.7	47.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)