

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: P738369

Luminaire Tested: **24PT-100-PC3-L840**

Issue Date: 2/8/2024



**Test Information**

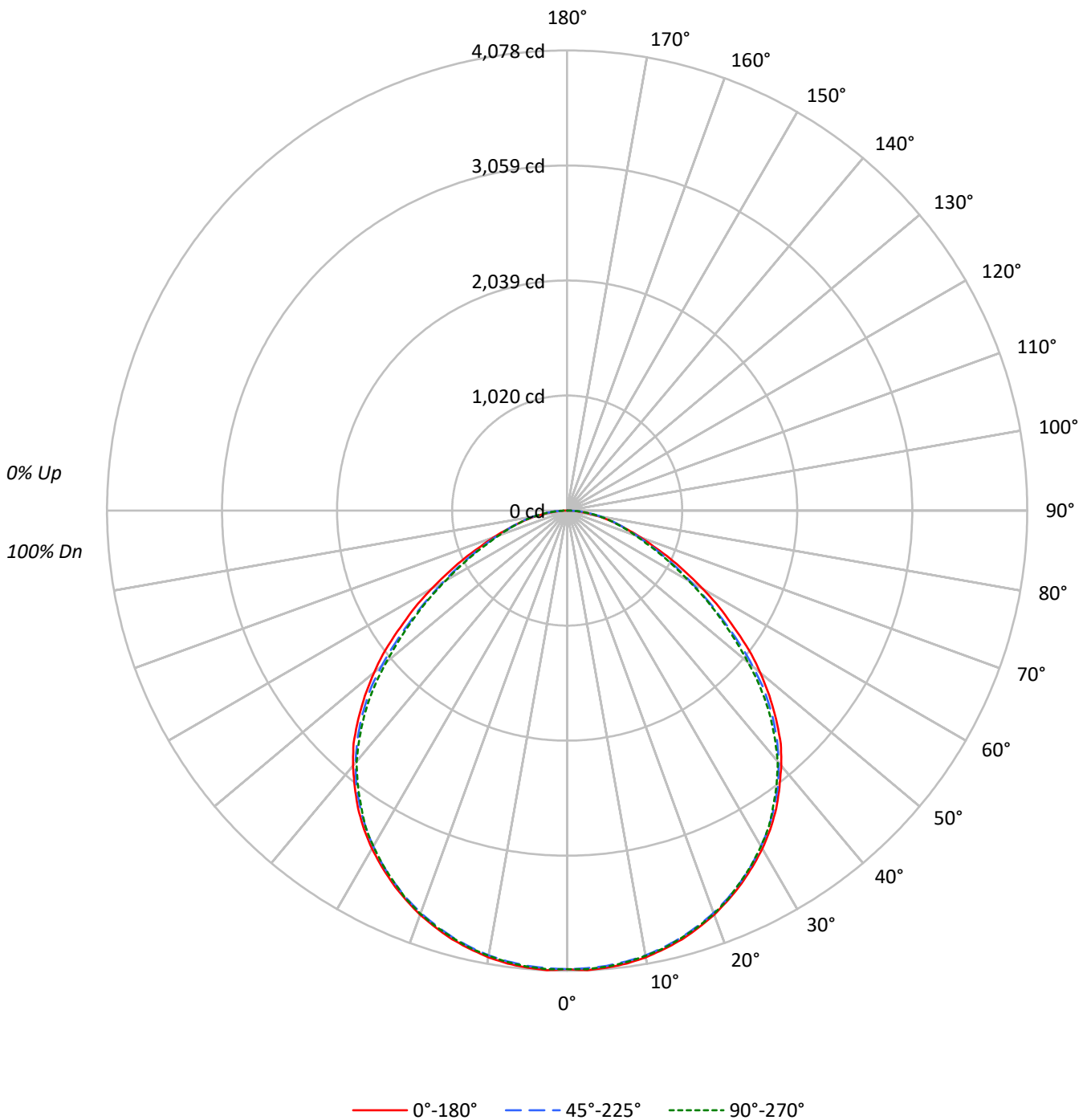
Test Method: LM-79-08  
Report Number: P738369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-100-PC3-L840  
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10251.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 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): 85.4  
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																		
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	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°	5827	5827	5827
5°	5853	5828	5840
10°	5853	5826	5835
15°	5839	5813	5819
20°	5816	5789	5801
25°	5776	5748	5746
30°	5727	5689	5687
35°	5651	5605	5579
40°	5524	5458	5432
45°	5310	5211	5138
50°	4986	4794	4668
55°	4507	4202	4123
60°	3986	3636	3565
65°	3408	3151	3070
70°	2888	2764	2684
75°	2532	2576	2487
80°	2269	2503	2363
85°	1917	2288	2177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.3	3.8
10°-20°	1106.0	10.8
20°-30°	1675.4	16.3
30°-40°	2001.2	19.5
40°-50°	1974.1	19.3
50°-60°	1528.2	14.9
60°-70°	939.3	9.2
70°-80°	492.2	4.8
80°-90°	149.2	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°	3166.8	30.9
0°-40°	5168.0	50.4
0°-60°	8670.3	84.6
0°-90°	10251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10251.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4064	4064	4064	4064	4064	
5°	4066	4054	4049	4047	4057	387
15°	3934	3921	3916	3912	3920	1110
25°	3651	3640	3633	3631	3632	1682
35°	3228	3213	3202	3192	3187	2015
45°	2618	2599	2570	2543	2534	2014
55°	1803	1754	1681	1656	1649	1618
65°	1004	958	929	902	905	1002
75°	457	462	465	456	449	492
85°	116	130	139	136	132	136
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4063.9	4063.9	4063.9	4063.9	4063.9
2.5°	4077.5	4065.1	4059.4	4058.3	4067.3
5°	4066.2	4053.7	4049.2	4047.0	4057.1
7.5°	4048.1	4034.5	4030.0	4026.6	4035.6
10°	4019.8	4006.2	4001.7	3999.4	4007.4
12.5°	3979.1	3966.6	3963.3	3959.9	3970.0
15°	3933.8	3921.4	3915.7	3912.4	3920.3
17.5°	3875.0	3864.9	3858.1	3858.1	3864.9
20°	3811.7	3799.2	3793.6	3790.2	3801.5
22.5°	3733.6	3725.7	3718.9	3713.3	3725.7
25°	3651.1	3639.8	3633.0	3630.7	3631.9
27.5°	3557.2	3549.3	3540.2	3536.8	3539.1
30°	3458.8	3448.6	3436.2	3429.4	3435.0
32.5°	3349.1	3334.4	3324.2	3317.4	3325.3
35°	3228.1	3213.4	3202.0	3191.9	3187.3
37.5°	3090.1	3085.5	3069.7	3051.6	3050.5
40°	2951.0	2938.5	2915.9	2908.0	2902.3
42.5°	2801.6	2775.6	2751.9	2729.3	2721.3
45°	2618.4	2599.2	2569.8	2542.6	2533.6
47.5°	2430.7	2405.8	2377.5	2330.0	2324.3
50°	2235.0	2198.8	2149.0	2109.4	2092.5
52.5°	2031.4	1982.8	1913.8	1879.8	1870.8
55°	1802.9	1754.3	1680.8	1655.9	1649.1
57.5°	1599.3	1528.1	1468.1	1439.8	1448.9
60°	1390.1	1321.1	1267.9	1240.8	1243.0
62.5°	1185.4	1131.1	1091.5	1065.5	1068.9
65°	1004.4	958.0	928.6	901.5	904.9
67.5°	826.8	805.3	783.8	768.0	758.9
70°	688.8	679.8	659.4	644.7	640.2
72.5°	563.3	568.9	552.0	547.4	546.3
75°	457.0	461.5	464.9	455.8	449.0
77.5°	365.3	372.1	385.7	373.3	371.0
80°	274.8	288.4	303.1	295.2	286.2
82.5°	192.3	209.2	222.8	212.6	208.1
85°	116.5	130.1	139.1	135.7	132.3
87.5°	52.0	56.6	61.1	62.2	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)