

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: P738376

Luminaire Tested: **24PT-100-PL1-L835**

Issue Date: 2/8/2024



**Test Information**

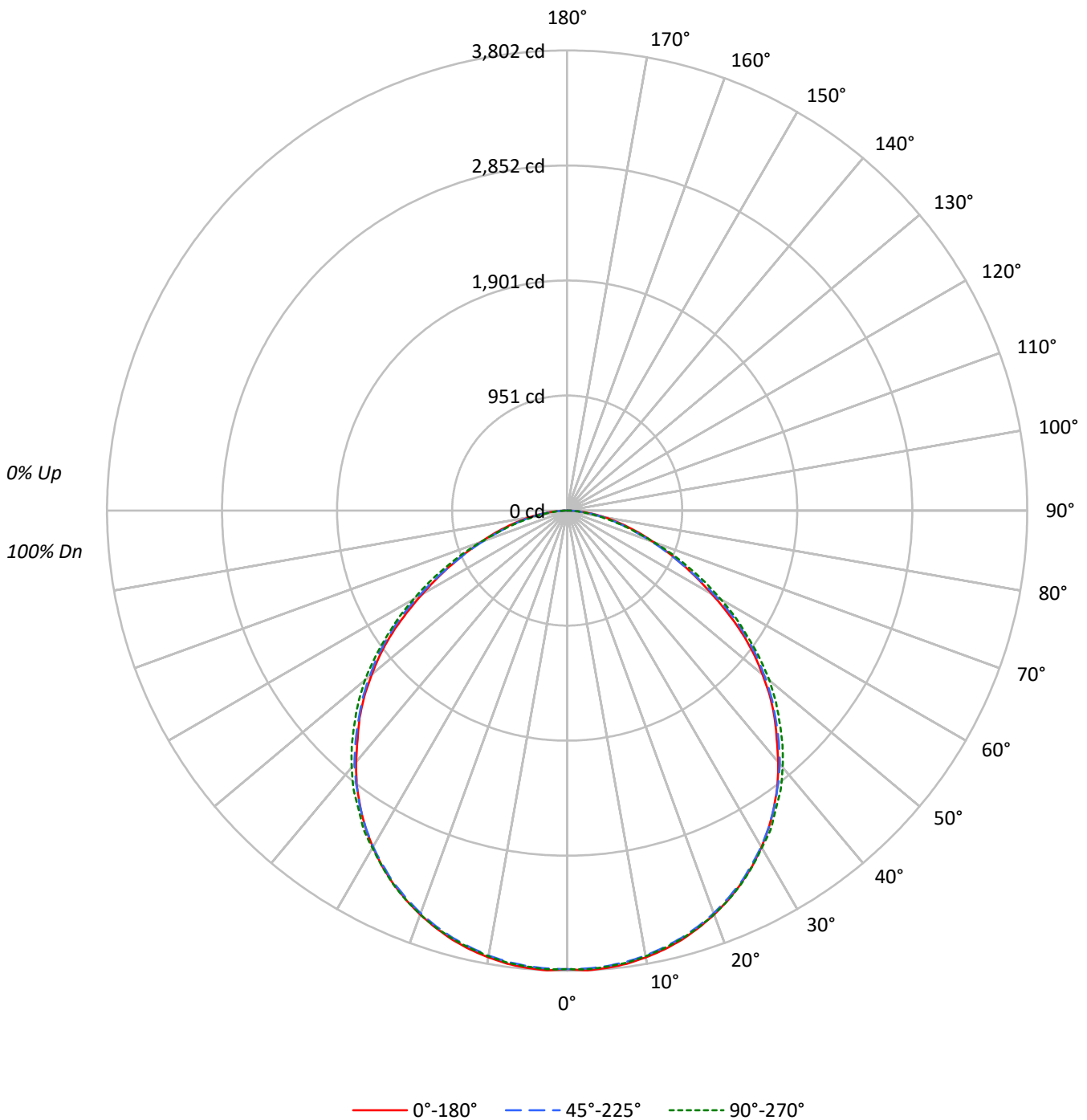
Test Method: LM-79-08  
Report Number: P738376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-100-PL1-L835  
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10030.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 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): 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				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°	5433	5433	5433
5°	5460	5437	5445
10°	5457	5435	5444
15°	5447	5424	5436
20°	5420	5403	5416
25°	5380	5368	5385
30°	5316	5309	5327
35°	5220	5222	5262
40°	5076	5115	5184
45°	4919	4941	5038
50°	4699	4752	4866
55°	4411	4493	4561
60°	3961	4058	4207
65°	3544	3551	3743
70°	3160	3073	3183
75°	2854	2685	2637
80°	2537	2366	2087
85°	2078	1971	1630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.4	3.6
10°-20°	1032.1	10.3
20°-30°	1563.6	15.6
30°-40°	1868.6	18.6
40°-50°	1885.0	18.8
50°-60°	1599.2	15.9
60°-70°	1058.1	10.5
70°-80°	525.1	5.2
80°-90°	138.9	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°	2955.1	29.5
0°-40°	4823.7	48.1
0°-60°	8307.9	82.8
0°-90°	10030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10030.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3789	3789	3789	3789	3789	
5°	3794	3781	3777	3775	3783	361
15°	3670	3658	3654	3654	3662	1035
25°	3400	3393	3393	3392	3404	1566
35°	2982	2978	2983	3000	3006	1863
45°	2426	2422	2436	2469	2484	1866
55°	1764	1769	1797	1814	1824	1569
65°	1044	1042	1047	1079	1103	1042
75°	515	501	485	469	476	551
85°	126	126	120	110	99	150
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3789.3	3789.3	3789.3	3789.3	3789.3
2.5°	3802.4	3790.4	3787.1	3784.9	3793.6
5°	3793.6	3780.6	3777.3	3775.1	3782.8
7.5°	3776.2	3762.1	3759.9	3757.7	3767.5
10°	3747.9	3734.8	3732.7	3730.5	3739.2
12.5°	3714.1	3701.1	3696.7	3697.8	3703.2
15°	3669.5	3657.5	3654.2	3654.2	3661.9
17.5°	3613.9	3603.0	3600.9	3599.8	3609.6
20°	3551.8	3541.0	3541.0	3544.2	3549.7
22.5°	3481.1	3473.4	3469.1	3471.2	3482.1
25°	3400.5	3392.8	3392.8	3391.7	3403.7
27.5°	3311.1	3301.3	3301.3	3310.0	3314.4
30°	3210.9	3202.2	3206.6	3213.1	3217.5
32.5°	3103.1	3097.7	3100.9	3110.7	3128.2
35°	2982.2	2977.8	2983.3	2999.6	3006.2
37.5°	2855.9	2852.6	2860.2	2882.0	2900.5
40°	2712.1	2712.1	2732.8	2752.4	2769.8
42.5°	2562.9	2572.7	2587.9	2618.4	2633.7
45°	2425.6	2422.4	2436.5	2469.2	2484.4
47.5°	2273.1	2269.9	2290.6	2313.4	2338.5
50°	2106.5	2105.4	2130.5	2150.1	2181.6
52.5°	1944.2	1954.0	1970.3	1987.8	2006.3
55°	1764.5	1768.8	1797.2	1813.5	1824.4
57.5°	1570.6	1584.8	1619.6	1643.6	1653.4
60°	1381.1	1389.8	1414.9	1457.3	1467.1
62.5°	1209.0	1212.3	1227.5	1275.4	1288.5
65°	1044.5	1042.4	1046.7	1079.4	1103.3
67.5°	895.3	886.6	886.6	904.0	933.4
70°	753.7	740.6	733.0	738.5	759.2
72.5°	635.0	617.6	598.0	594.7	607.8
75°	515.2	501.0	484.7	469.4	476.0
77.5°	410.6	398.6	383.4	366.0	357.3
80°	307.2	302.8	286.5	270.1	252.7
82.5°	214.6	211.3	200.4	187.3	176.4
85°	126.3	126.3	119.8	110.0	99.1
87.5°	56.6	54.5	56.6	47.9	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)