

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: P738375

Luminaire Tested: **24PT-100-PL1-L830**

Issue Date: 2/8/2024



**Test Information**

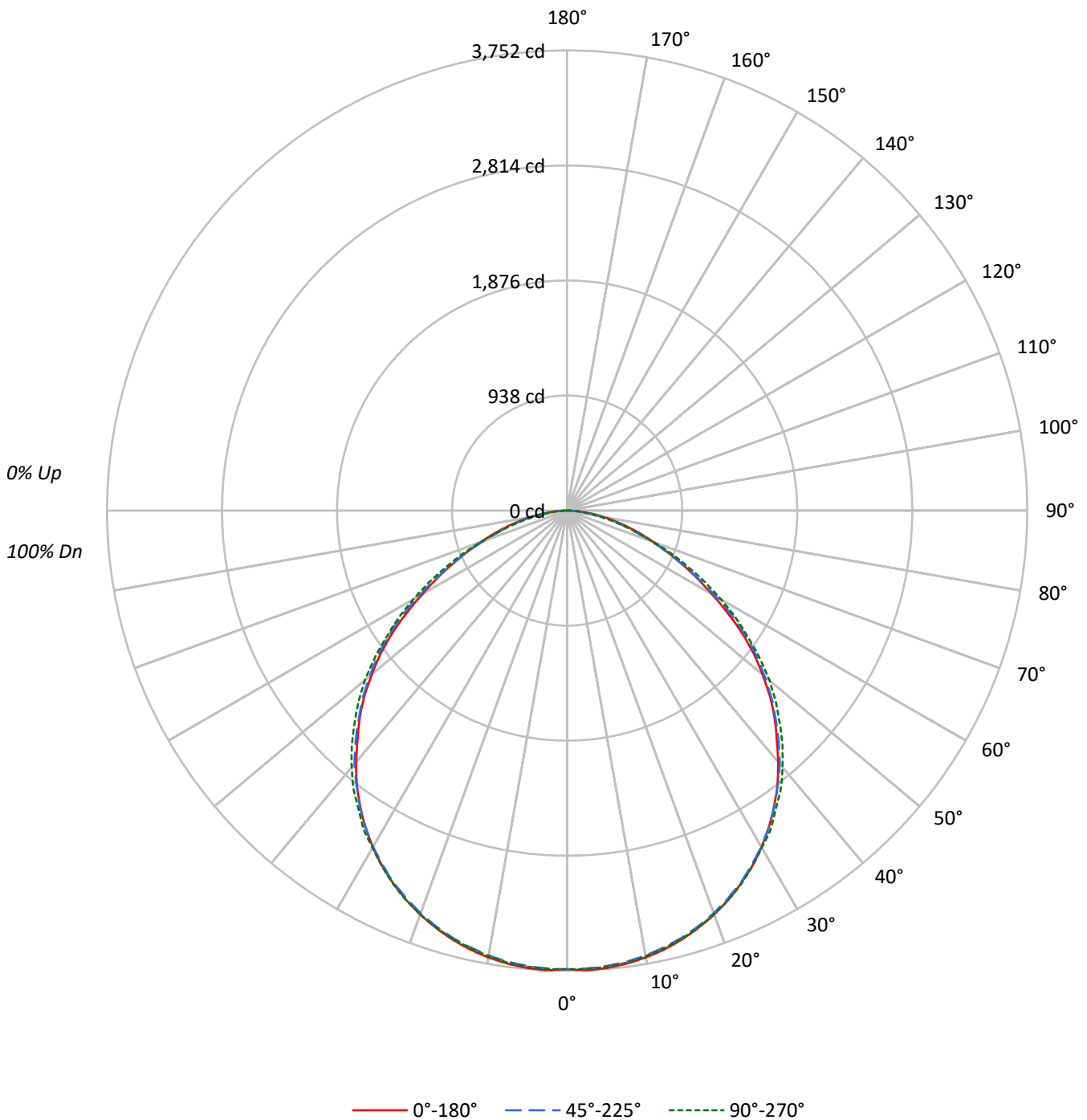
Test Method: LM-79-08  
Report Number: P738375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-100-PL1-L830  
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9897.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 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°	5361	5361	5361
5°	5388	5365	5372
10°	5385	5363	5372
15°	5375	5353	5364
20°	5348	5331	5345
25°	5309	5297	5314
30°	5246	5239	5256
35°	5151	5153	5192
40°	5009	5047	5116
45°	4854	4875	4971
50°	4637	4689	4802
55°	4353	4433	4500
60°	3908	4004	4152
65°	3497	3504	3694
70°	3118	3032	3140
75°	2817	2650	2602
80°	2503	2334	2059
85°	2052	1945	1609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.7	3.6
10°-20°	1018.4	10.3
20°-30°	1542.9	15.6
30°-40°	1843.8	18.6
40°-50°	1860.0	18.8
50°-60°	1578.0	15.9
60°-70°	1044.1	10.5
70°-80°	518.1	5.2
80°-90°	137.1	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°	2915.9	29.5
0°-40°	4759.7	48.1
0°-60°	8197.7	82.8
0°-90°	9897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3739	3739	3739	3739	3739	
5°	3743	3730	3727	3725	3733	356
15°	3621	3609	3606	3606	3613	1021
25°	3355	3348	3348	3347	3359	1545
35°	2943	2938	2944	2960	2966	1839
45°	2394	2390	2404	2436	2452	1841
55°	1741	1745	1773	1790	1800	1548
65°	1031	1028	1033	1065	1089	1028
75°	508	494	478	463	470	544
85°	125	125	118	108	98	148
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3739.0	3739.0	3739.0	3739.0	3739.0
2.5°	3751.9	3740.1	3736.9	3734.7	3743.3
5°	3743.3	3730.4	3727.2	3725.1	3732.6
7.5°	3726.1	3712.2	3710.0	3707.9	3717.6
10°	3698.2	3685.3	3683.2	3681.0	3689.6
12.5°	3664.9	3652.0	3647.7	3648.8	3654.1
15°	3620.8	3609.0	3605.8	3605.8	3613.3
17.5°	3566.0	3555.3	3553.1	3552.0	3561.7
20°	3504.8	3494.0	3494.0	3497.2	3502.6
22.5°	3434.9	3427.4	3423.1	3425.2	3436.0
25°	3355.4	3347.8	3347.8	3346.8	3358.6
27.5°	3267.2	3257.6	3257.6	3266.2	3270.5
30°	3168.4	3159.8	3164.1	3170.5	3174.8
32.5°	3062.0	3056.6	3059.8	3069.5	3086.7
35°	2942.7	2938.4	2943.7	2959.9	2966.3
37.5°	2818.0	2814.8	2822.3	2843.8	2862.1
40°	2676.1	2676.1	2696.5	2715.9	2733.1
42.5°	2528.9	2538.6	2553.6	2583.7	2598.7
45°	2393.5	2390.2	2404.2	2436.5	2451.5
47.5°	2243.0	2239.8	2260.2	2282.8	2307.5
50°	2078.6	2077.5	2102.2	2121.6	2152.7
52.5°	1918.4	1928.1	1944.2	1961.4	1979.7
55°	1741.1	1745.4	1773.3	1789.5	1800.2
57.5°	1549.8	1563.8	1598.1	1621.8	1631.5
60°	1362.8	1371.4	1396.1	1438.0	1447.7
62.5°	1193.0	1196.2	1211.2	1258.5	1271.4
65°	1030.7	1028.5	1032.8	1065.1	1088.7
67.5°	883.4	874.8	874.8	892.0	921.1
70°	743.7	730.8	723.3	728.7	749.1
72.5°	626.6	609.4	590.0	586.8	599.7
75°	508.4	494.4	478.3	463.2	469.7
77.5°	405.2	393.4	378.3	361.1	352.5
80°	303.1	298.8	282.7	266.5	249.3
82.5°	211.7	208.5	197.8	184.9	174.1
85°	124.7	124.7	118.2	108.5	97.8
87.5°	55.9	53.7	55.9	47.3	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)