

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: P738383

Luminaire Tested: **24PT-100-PR1-L830**

Issue Date: 2/8/2024



**Test Information**

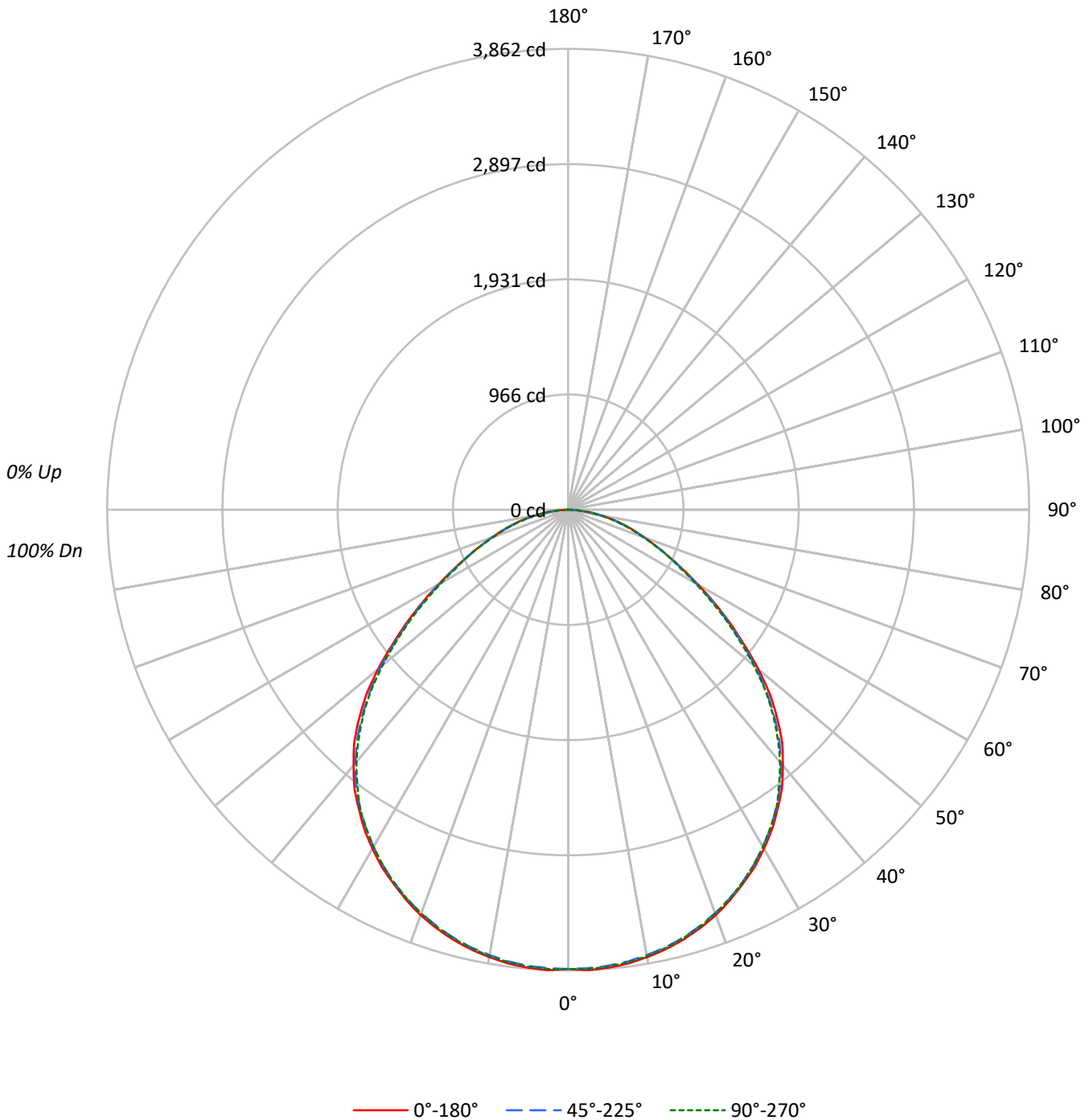
Test Method: LM-79-08  
Report Number: P738383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-100-PR1-L830  
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPLE LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9804.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 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

TEST NUMBER: P738383  
CATALOG NUMBER: 24PT-100-PR1-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P738383

CATALOG NUMBER: 24PT-100-PR1-L830

**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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36
8	62	49	41	35	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	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5520	5520	5520
5°	5545	5522	5532
10°	5544	5517	5530
15°	5536	5512	5522
20°	5518	5490	5495
25°	5473	5456	5460
30°	5431	5400	5400
35°	5356	5324	5330
40°	5234	5190	5168
45°	5025	4945	4919
50°	4639	4572	4529
55°	4129	4070	4043
60°	3600	3560	3523
65°	3154	3158	3139
70°	2839	2829	2789
75°	2644	2566	2572
80°	2361	2316	2316
85°	1821	1874	1803



TEST NUMBER: P738383

CATALOG NUMBER: 24PT-100-PR1-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.1	3.7
10°-20°	1048.6	10.7
20°-30°	1589.8	16.2
30°-40°	1901.4	19.4
40°-50°	1877.4	19.1
50°-60°	1461.3	14.9
60°-70°	927.6	9.5
70°-80°	497.8	5.1
80°-90°	135.0	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°	3003.5	30.6
0°-40°	4904.9	50.0
0°-60°	8243.5	84.1
0°-90°	9804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9804.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3850	3850	3850	3850	3850	
5°	3853	3841	3837	3835	3843	366
15°	3729	3716	3713	3709	3720	1053
25°	3460	3453	3449	3442	3451	1596
35°	3060	3053	3041	3032	3045	1913
45°	2478	2461	2438	2427	2426	1902
55°	1652	1643	1628	1617	1617	1479
65°	930	933	931	919	925	933
75°	477	470	463	462	464	504
85°	111	113	114	114	110	136
90°	0	0	0	0	0	



TEST NUMBER: P738383

CATALOG NUMBER: 24PT-100-PR1-L830

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3849.6	3849.6	3849.6	3849.6	3849.6
2.5°	3862.5	3849.6	3845.3	3843.2	3852.8
5°	3852.8	3841.0	3836.7	3834.6	3843.2
7.5°	3836.7	3822.8	3818.5	3816.3	3826.0
10°	3807.7	3794.8	3789.4	3789.4	3798.0
12.5°	3773.3	3762.6	3757.2	3752.9	3762.6
15°	3729.3	3716.4	3713.1	3708.8	3719.6
17.5°	3676.6	3663.7	3659.4	3657.2	3664.8
20°	3616.4	3600.3	3598.1	3597.1	3601.4
22.5°	3542.3	3533.7	3529.4	3527.2	3530.4
25°	3459.5	3453.1	3448.8	3442.3	3450.9
27.5°	3378.9	3370.3	3359.6	3354.2	3359.6
30°	3280.0	3269.3	3261.8	3259.6	3261.8
32.5°	3177.9	3167.2	3157.5	3156.4	3155.4
35°	3059.7	3053.3	3041.4	3031.8	3044.7
37.5°	2942.6	2927.5	2916.8	2904.9	2901.7
40°	2796.4	2791.0	2772.8	2762.0	2760.9
42.5°	2654.5	2629.8	2616.9	2609.4	2597.6
45°	2478.3	2461.1	2438.5	2426.7	2425.6
47.5°	2294.5	2273.0	2251.5	2235.4	2239.7
50°	2079.6	2069.9	2049.5	2035.5	2030.1
52.5°	1858.2	1856.0	1834.5	1825.9	1816.3
55°	1651.8	1643.2	1628.2	1617.4	1617.4
57.5°	1448.7	1441.2	1433.7	1413.2	1413.2
60°	1255.3	1254.2	1241.3	1229.5	1228.4
62.5°	1082.2	1088.7	1076.9	1065.0	1058.6
65°	929.6	932.9	930.7	918.9	925.3
67.5°	795.3	796.4	792.1	785.6	789.9
70°	677.1	682.4	674.9	670.6	665.2
72.5°	573.9	571.7	565.3	568.5	561.0
75°	477.2	469.6	463.2	462.1	464.3
77.5°	380.4	378.3	372.9	372.9	369.7
80°	285.9	283.7	280.5	281.6	280.5
82.5°	203.1	197.7	193.4	195.6	196.7
85°	110.7	112.8	113.9	113.9	109.6
87.5°	45.1	44.1	45.1	47.3	48.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)