

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: P738394

Luminaire Tested: **24PT-100-PW1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738394
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-100-PW1-L850
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

Summary

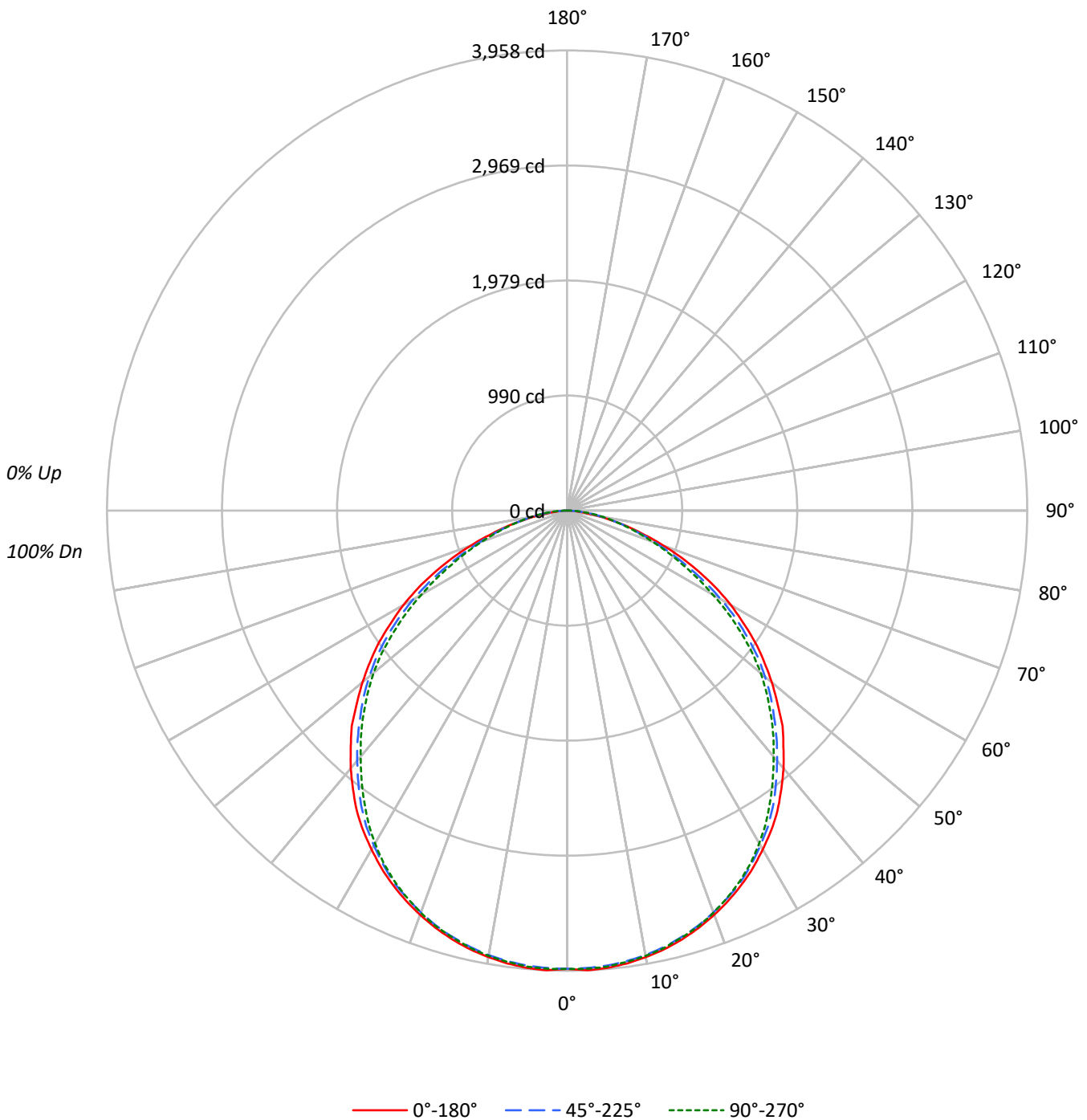
Lumens per Lamp: N/A
Luminaire Lumens: 10510.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.24 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5652	5652	5652
5°	5683	5655	5667
10°	5679	5653	5663
15°	5668	5638	5645
20°	5646	5613	5616
25°	5616	5583	5562
30°	5572	5507	5473
35°	5521	5410	5334
40°	5420	5260	5172
45°	5312	5107	5024
50°	5125	4952	4848
55°	4937	4726	4555
60°	4667	4379	4154
65°	4272	3901	3700
70°	3702	3382	3258
75°	3030	2917	2879
80°	2211	2494	2569
85°	1481	2081	2213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	3.6
10°-20°	1073.2	10.2
20°-30°	1624.2	15.5
30°-40°	1932.6	18.4
40°-50°	1952.2	18.6
50°-60°	1689.2	16.1
60°-70°	1153.9	11.0
70°-80°	568.7	5.4
80°-90°	142.1	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°	3071.3	29.2
0°-40°	5003.9	47.6
0°-60°	8645.3	82.3
0°-90°	10510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3942	3942	3942	3942	3942	
5°	3948	3934	3929	3926	3937	375
15°	3819	3806	3798	3796	3803	1078
25°	3550	3536	3529	3516	3516	1636
35°	3154	3128	3090	3056	3047	1969
45°	2620	2575	2518	2490	2477	2012
55°	1975	1948	1890	1851	1822	1759
65°	1259	1211	1150	1112	1090	1244
75°	547	531	526	523	520	585
85°	90	112	126	131	134	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3941.7	3941.7	3941.7	3941.7	3941.7
2.5°	3957.6	3942.8	3938.2	3934.8	3945.1
5°	3948.5	3933.7	3929.1	3925.7	3937.1
7.5°	3929.1	3914.3	3909.7	3906.3	3915.4
10°	3900.6	3887.0	3882.4	3879.0	3889.2
12.5°	3864.2	3851.6	3845.9	3841.4	3852.8
15°	3818.6	3806.1	3798.1	3795.8	3802.6
17.5°	3763.9	3751.4	3745.7	3742.2	3750.2
20°	3700.1	3686.4	3678.4	3673.9	3680.7
22.5°	3629.4	3615.7	3605.5	3600.9	3603.2
25°	3549.7	3536.0	3529.1	3515.5	3515.5
27.5°	3464.2	3448.2	3431.1	3416.3	3417.5
30°	3365.1	3346.8	3326.3	3306.9	3305.8
32.5°	3264.8	3242.0	3216.9	3190.7	3182.7
35°	3154.2	3128.0	3090.4	3056.2	3047.1
37.5°	3024.3	3000.4	2950.3	2921.8	2907.0
40°	2895.6	2861.4	2810.1	2777.1	2763.4
42.5°	2754.3	2721.2	2666.5	2635.7	2624.4
45°	2619.8	2575.4	2518.4	2489.9	2477.4
47.5°	2452.3	2415.8	2375.9	2342.9	2326.9
50°	2297.3	2267.7	2219.8	2183.4	2173.1
52.5°	2135.5	2110.4	2064.8	2017.0	2005.6
55°	1974.8	1947.5	1890.5	1850.6	1822.1
57.5°	1793.6	1769.7	1716.1	1664.9	1639.8
60°	1627.3	1586.2	1527.0	1471.1	1448.4
62.5°	1446.1	1406.2	1337.8	1280.8	1268.3
65°	1259.2	1211.3	1149.8	1112.2	1090.5
67.5°	1070.0	1023.3	972.0	948.1	934.4
70°	883.1	845.5	806.8	789.7	777.2
72.5°	703.1	681.4	659.8	653.0	641.6
75°	547.0	531.0	526.5	523.0	519.6
77.5°	394.3	402.3	406.8	411.4	406.8
80°	267.8	284.9	302.0	311.1	311.1
82.5°	165.2	194.9	209.7	218.8	217.7
85°	90.0	111.7	126.5	131.0	134.5
87.5°	36.5	45.6	51.3	55.8	58.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)