

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: P738378

Luminaire Tested: **24PT-100-PL1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738378
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-L850
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

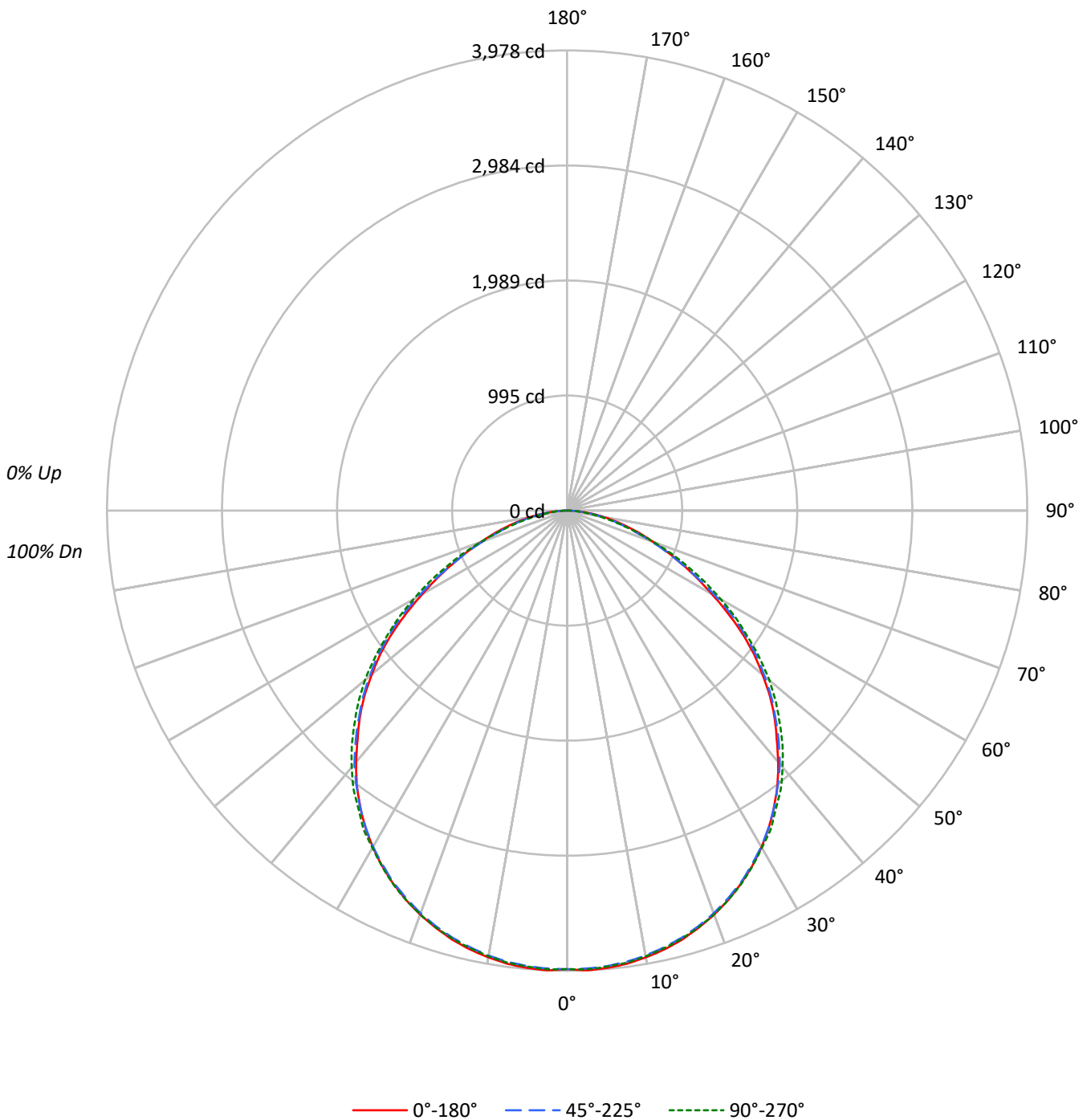
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10494.0 lumens
Efficiency: N/A
Efficacy: 122.9 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°	5685	5685	5685
5°	5713	5688	5697
10°	5709	5686	5696
15°	5699	5675	5687
20°	5670	5653	5667
25°	5629	5616	5634
30°	5562	5555	5574
35°	5462	5464	5505
40°	5311	5352	5424
45°	5146	5169	5271
50°	4916	4972	5092
55°	4615	4700	4772
60°	4144	4245	4402
65°	3708	3715	3917
70°	3306	3215	3330
75°	2986	2809	2759
80°	2654	2475	2183
85°	2175	2063	1706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.1	3.6
10°-20°	1079.8	10.3
20°-30°	1636.0	15.6
30°-40°	1955.0	18.6
40°-50°	1972.1	18.8
50°-60°	1673.2	15.9
60°-70°	1107.1	10.5
70°-80°	549.4	5.2
80°-90°	145.4	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°	3091.8	29.5
0°-40°	5046.9	48.1
0°-60°	8692.2	82.8
0°-90°	10494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3965	3965	3965	3965	3965	
5°	3969	3956	3952	3950	3958	377
15°	3839	3827	3823	3823	3831	1083
25°	3558	3550	3550	3549	3561	1639
35°	3120	3116	3121	3138	3145	1949
45°	2538	2534	2549	2583	2599	1952
55°	1846	1851	1880	1897	1909	1641
65°	1093	1091	1095	1129	1154	1091
75°	539	524	507	491	498	577
85°	132	132	125	115	104	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3964.6	3964.6	3964.6	3964.6	3964.6
2.5°	3978.3	3965.7	3962.3	3960.0	3969.1
5°	3969.1	3955.5	3952.1	3949.8	3957.8
7.5°	3950.9	3936.1	3933.8	3931.5	3941.8
10°	3921.3	3907.6	3905.3	3903.1	3912.2
12.5°	3886.0	3872.3	3867.7	3868.9	3874.6
15°	3839.2	3826.7	3823.3	3823.3	3831.3
17.5°	3781.1	3769.7	3767.4	3766.3	3776.6
20°	3716.2	3704.8	3704.8	3708.2	3713.9
22.5°	3642.1	3634.1	3629.6	3631.8	3643.2
25°	3557.8	3549.8	3549.8	3548.6	3561.2
27.5°	3464.3	3454.1	3454.1	3463.2	3467.7
30°	3359.5	3350.4	3354.9	3361.8	3366.3
32.5°	3246.7	3241.0	3244.4	3254.6	3272.9
35°	3120.2	3115.6	3121.3	3138.4	3145.2
37.5°	2988.0	2984.6	2992.5	3015.3	3034.7
40°	2837.5	2837.5	2859.2	2879.7	2897.9
42.5°	2681.4	2691.7	2707.6	2739.5	2755.5
45°	2537.8	2534.4	2549.2	2583.4	2599.4
47.5°	2378.3	2374.9	2396.5	2420.5	2446.7
50°	2203.9	2202.8	2229.0	2249.5	2282.6
52.5°	2034.1	2044.4	2061.5	2079.7	2099.1
55°	1846.1	1850.7	1880.3	1897.4	1908.8
57.5°	1643.3	1658.1	1694.6	1719.6	1729.9
60°	1445.0	1454.1	1480.3	1524.8	1535.0
62.5°	1264.9	1268.3	1284.3	1334.4	1348.1
65°	1092.9	1090.6	1095.1	1129.3	1154.4
67.5°	936.7	927.6	927.6	945.8	976.6
70°	788.6	774.9	766.9	772.6	794.3
72.5°	664.4	646.1	625.6	622.2	635.9
75°	539.0	524.2	507.1	491.2	498.0
77.5°	429.6	417.1	401.1	382.9	373.8
80°	321.4	316.8	299.7	282.6	264.4
82.5°	224.5	221.1	209.7	196.0	184.6
85°	132.2	132.2	125.4	115.1	103.7
87.5°	59.3	57.0	59.3	50.1	46.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)