

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: P738714

Luminaire Tested: **24PT-90-PW1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738714
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-90-PW1-L850
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

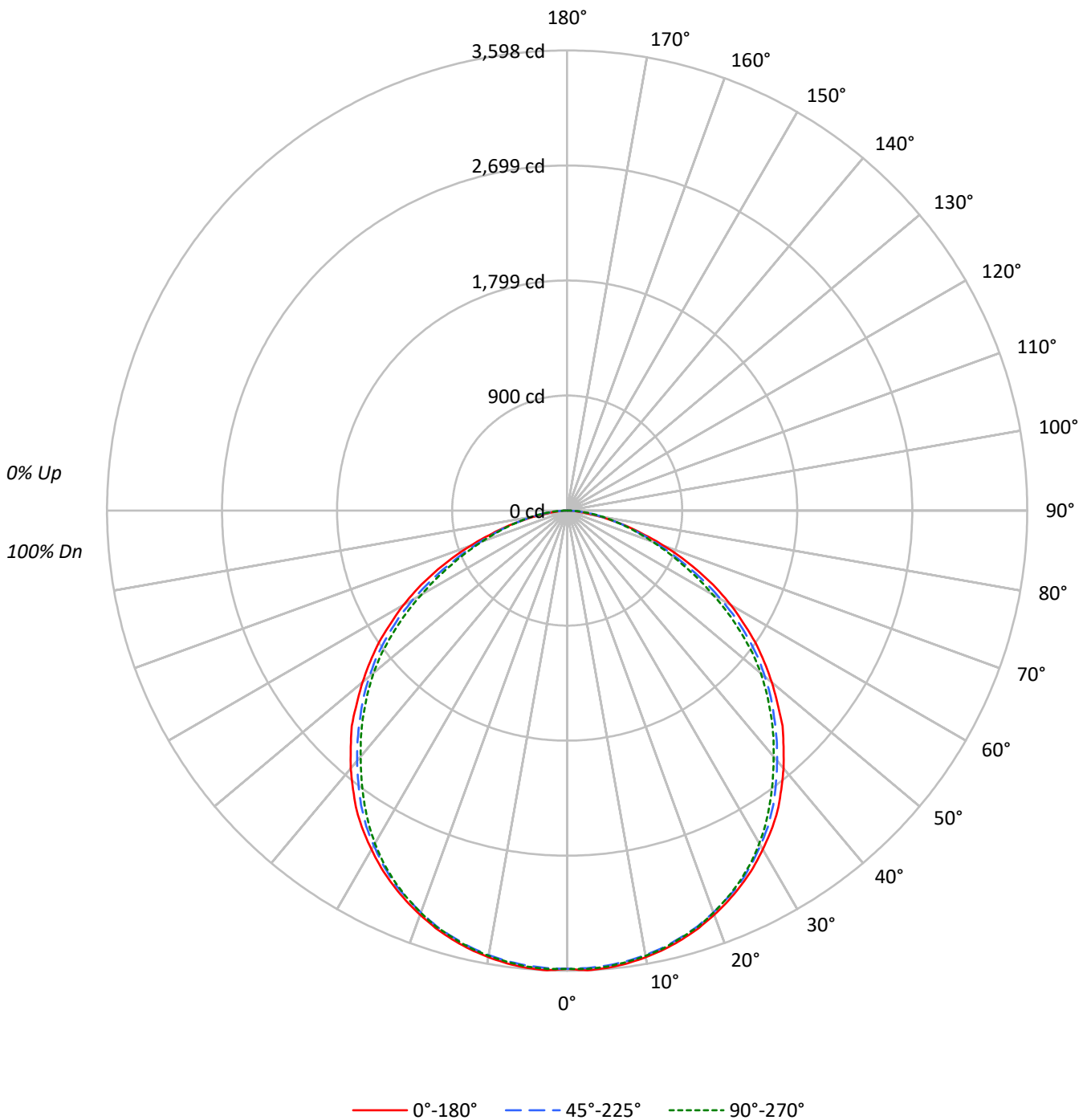
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9555.0 lumens
Efficiency: N/A
Efficacy: 126.2 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): 75.7
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°	5138	5138	5138
5°	5167	5141	5152
10°	5163	5139	5148
15°	5153	5126	5132
20°	5133	5103	5106
25°	5106	5076	5056
30°	5065	5007	4976
35°	5020	4918	4849
40°	4927	4782	4702
45°	4830	4643	4567
50°	4659	4502	4407
55°	4488	4297	4141
60°	4243	3981	3776
65°	3884	3546	3364
70°	3366	3075	2962
75°	2755	2651	2617
80°	2011	2267	2335
85°	1346	1892	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	3.6
10°-20°	975.7	10.2
20°-30°	1476.6	15.5
30°-40°	1757.0	18.4
40°-50°	1774.8	18.6
50°-60°	1535.7	16.1
60°-70°	1049.1	11.0
70°-80°	517.0	5.4
80°-90°	129.2	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°	2792.2	29.2
0°-40°	4549.3	47.6
0°-60°	7859.7	82.3
0°-90°	9555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3584	3584	3584	3584	3584	
5°	3590	3576	3572	3569	3579	341
15°	3472	3460	3453	3451	3457	980
25°	3227	3215	3208	3196	3196	1487
35°	2868	2844	2810	2778	2770	1790
45°	2382	2341	2290	2264	2252	1829
55°	1795	1770	1719	1682	1657	1599
65°	1145	1101	1045	1011	991	1131
75°	497	483	479	476	472	532
85°	82	102	115	119	122	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3583.5	3583.5	3583.5	3583.5	3583.5
2.5°	3598.0	3584.5	3580.4	3577.3	3586.6
5°	3589.7	3576.2	3572.1	3569.0	3579.4
7.5°	3572.1	3558.6	3554.5	3551.4	3559.7
10°	3546.2	3533.8	3529.6	3526.5	3535.8
12.5°	3513.0	3501.7	3496.5	3492.3	3502.7
15°	3471.6	3460.2	3453.0	3450.9	3457.1
17.5°	3421.9	3410.5	3405.3	3402.2	3409.4
20°	3363.9	3351.4	3344.2	3340.0	3346.3
22.5°	3299.6	3287.2	3277.9	3273.7	3275.8
25°	3227.1	3214.7	3208.5	3196.0	3196.0
27.5°	3149.4	3134.9	3119.4	3105.9	3106.9
30°	3059.3	3042.7	3024.1	3006.4	3005.4
32.5°	2968.1	2947.4	2924.6	2900.8	2893.5
35°	2867.6	2843.8	2809.6	2778.5	2770.2
37.5°	2749.5	2727.8	2682.2	2656.3	2642.8
40°	2632.5	2601.4	2554.8	2524.7	2512.3
42.5°	2504.0	2473.9	2424.2	2396.2	2385.9
45°	2381.7	2341.3	2289.5	2263.6	2252.2
47.5°	2229.5	2196.3	2160.0	2130.0	2115.5
50°	2088.6	2061.6	2018.1	1985.0	1975.6
52.5°	1941.4	1918.7	1877.2	1833.7	1823.3
55°	1795.4	1770.5	1718.7	1682.5	1656.6
57.5°	1630.7	1608.9	1560.2	1513.6	1490.8
60°	1479.4	1442.1	1388.2	1337.5	1316.7
62.5°	1314.7	1278.4	1216.3	1164.5	1153.1
65°	1144.8	1101.3	1045.3	1011.1	991.4
67.5°	972.8	930.3	883.7	861.9	849.5
70°	802.9	768.7	733.5	717.9	706.5
72.5°	639.2	619.5	599.8	593.6	583.3
75°	497.3	482.8	478.6	475.5	472.4
77.5°	358.5	365.7	369.8	374.0	369.8
80°	243.5	259.0	274.5	282.8	282.8
82.5°	150.2	177.2	190.6	198.9	197.9
85°	81.8	101.5	115.0	119.1	122.2
87.5°	33.2	41.4	46.6	50.8	52.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)