

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: P738698

Luminaire Tested: **24PT-90-PL1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738698
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-90-PL1-L850
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

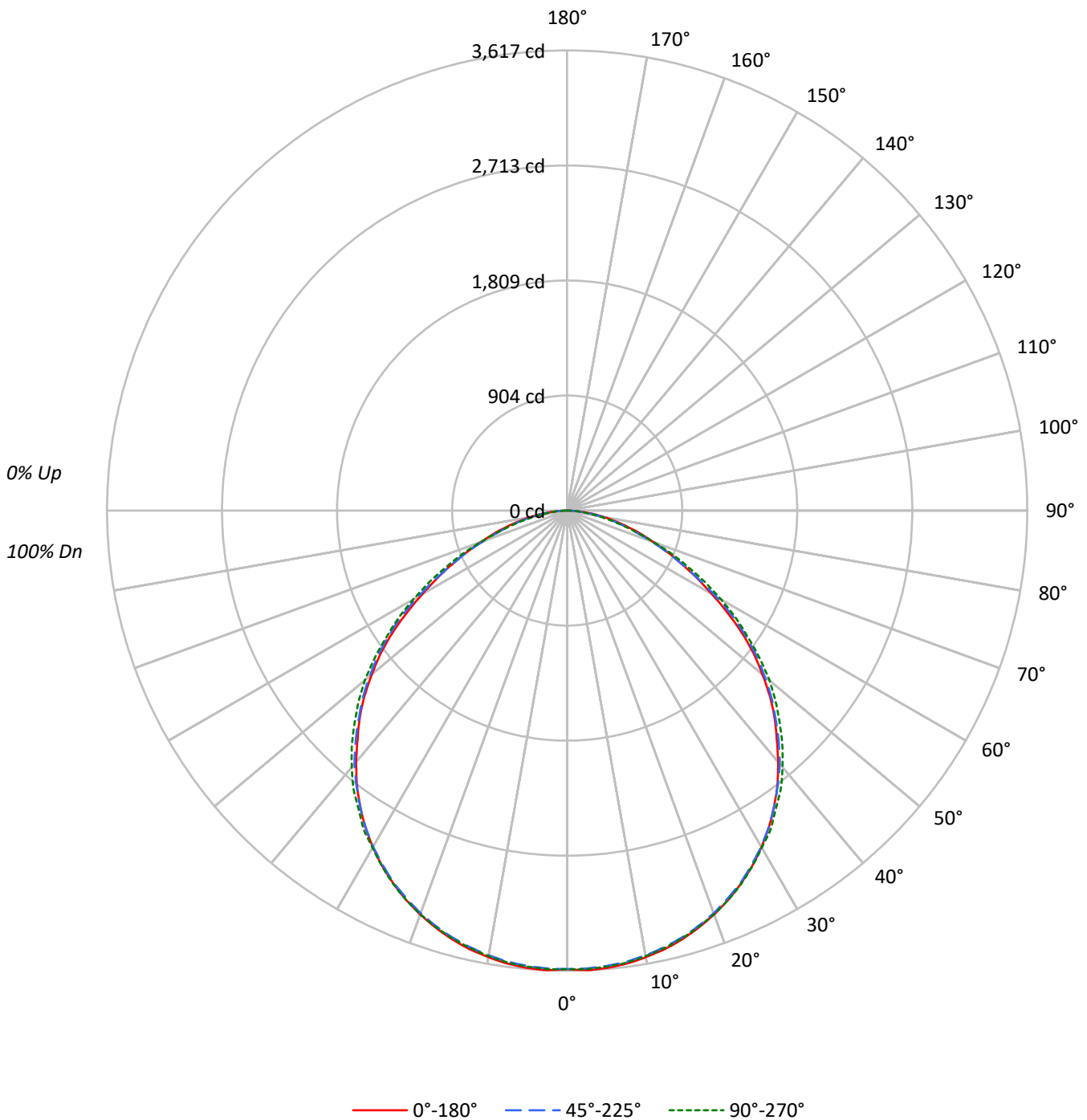
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9540.0 lumens
Efficiency: N/A
Efficacy: 126.0 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): 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

TEST NUMBER: P738698
CATALOG NUMBER: 24PT-90-PL1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P738698

CATALOG NUMBER: 24PT-90-PL1-L850

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°	5168	5168	5168
5°	5194	5171	5179
10°	5190	5169	5178
15°	5181	5159	5170
20°	5155	5139	5152
25°	5117	5106	5122
30°	5057	5050	5067
35°	4965	4967	5005
40°	4828	4865	4931
45°	4678	4699	4792
50°	4469	4520	4629
55°	4196	4273	4338
60°	3767	3859	4002
65°	3371	3378	3560
70°	3005	2923	3027
75°	2715	2554	2508
80°	2412	2250	1984
85°	1977	1875	1551



TEST NUMBER: P738698

CATALOG NUMBER: 24PT-90-PL1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.9	3.6
10°-20°	981.6	10.3
20°-30°	1487.2	15.6
30°-40°	1777.3	18.6
40°-50°	1792.9	18.8
50°-60°	1521.1	15.9
60°-70°	1006.4	10.5
70°-80°	499.4	5.2
80°-90°	132.1	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°	2810.7	29.5
0°-40°	4588.0	48.1
0°-60°	7902.0	82.8
0°-90°	9540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3604	3604	3604	3604	3604	
5°	3608	3596	3593	3591	3598	343
15°	3490	3479	3476	3476	3483	985
25°	3234	3227	3227	3226	3237	1490
35°	2836	2832	2838	2853	2859	1772
45°	2307	2304	2318	2349	2363	1775
55°	1678	1682	1709	1725	1735	1492
65°	994	991	996	1027	1049	991
75°	490	477	461	446	453	524
85°	120	120	114	105	94	143
90°	0	0	0	0	0	



TEST NUMBER: P738698

CATALOG NUMBER: 24PT-90-PL1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3604.2	3604.2	3604.2	3604.2	3604.2
2.5°	3616.6	3605.2	3602.1	3600.0	3608.3
5°	3608.3	3595.9	3592.8	3590.7	3598.0
7.5°	3591.7	3578.3	3576.2	3574.1	3583.5
10°	3564.8	3552.4	3550.3	3548.2	3556.5
12.5°	3532.7	3520.3	3516.1	3517.2	3522.3
15°	3490.2	3478.8	3475.7	3475.7	3483.0
17.5°	3437.4	3427.0	3424.9	3423.9	3433.2
20°	3378.3	3368.0	3368.0	3371.1	3376.3
22.5°	3311.0	3303.7	3299.6	3301.7	3312.0
25°	3234.3	3227.1	3227.1	3226.0	3237.4
27.5°	3149.4	3140.1	3140.1	3148.3	3152.5
30°	3054.1	3045.8	3049.9	3056.1	3060.3
32.5°	2951.5	2946.3	2949.4	2958.8	2975.3
35°	2836.5	2832.4	2837.5	2853.1	2859.3
37.5°	2716.3	2713.2	2720.5	2741.2	2758.8
40°	2579.6	2579.6	2599.3	2617.9	2634.5
42.5°	2437.7	2447.0	2461.5	2490.5	2505.0
45°	2307.1	2304.0	2317.5	2348.6	2363.1
47.5°	2162.1	2159.0	2178.7	2200.4	2224.2
50°	2003.6	2002.5	2026.4	2045.0	2075.1
52.5°	1849.2	1858.5	1874.1	1890.7	1908.3
55°	1678.3	1682.4	1709.4	1724.9	1735.3
57.5°	1493.9	1507.4	1540.5	1563.3	1572.6
60°	1313.6	1321.9	1345.7	1386.1	1395.5
62.5°	1149.9	1153.0	1167.5	1213.1	1225.6
65°	993.5	991.4	995.6	1026.7	1049.4
67.5°	851.6	843.3	843.3	859.9	887.8
70°	716.9	704.5	697.2	702.4	722.1
72.5°	604.0	587.4	568.8	565.6	578.1
75°	490.0	476.6	461.0	446.5	452.7
77.5°	390.6	379.2	364.7	348.1	339.8
80°	292.1	288.0	272.5	256.9	240.3
82.5°	204.1	201.0	190.6	178.2	167.8
85°	120.2	120.2	114.0	104.6	94.3
87.5°	53.9	51.8	53.9	45.6	42.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)