

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: P738697

Luminaire Tested: **24PT-90-PL1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738697
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-L840
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

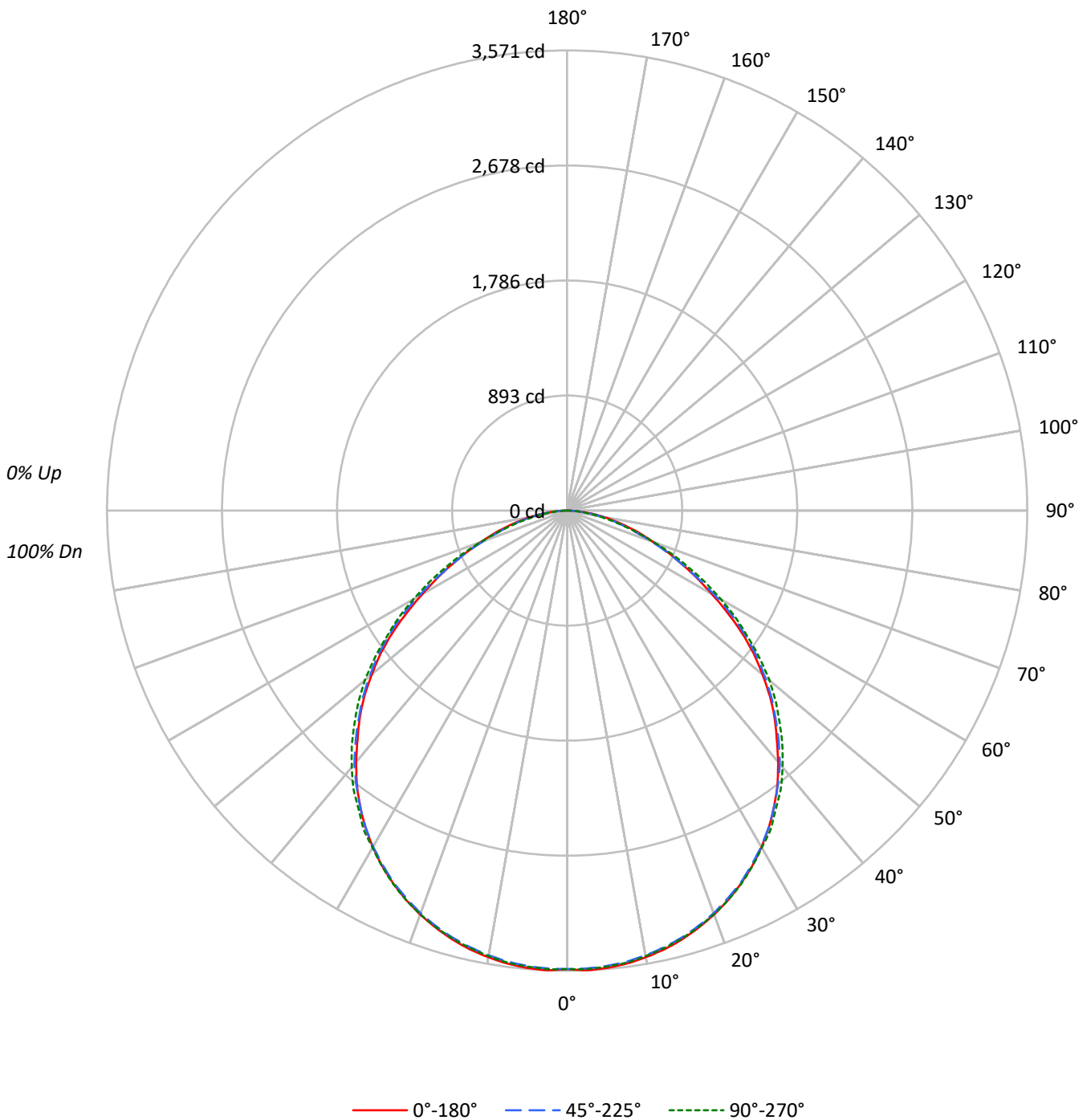
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9419.0 lumens
Efficiency: N/A
Efficacy: 124.4 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: P738697
CATALOG NUMBER: 24PT-90-PL1-L840

Luminous Intensity Polar Plot





TEST NUMBER: P738697

CATALOG NUMBER: 24PT-90-PL1-L840

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°	5102	5102	5102
5°	5128	5106	5113
10°	5124	5104	5113
15°	5115	5094	5105
20°	5090	5074	5086
25°	5052	5041	5057
30°	4992	4986	5003
35°	4902	4904	4941
40°	4767	4804	4869
45°	4619	4640	4731
50°	4413	4463	4570
55°	4142	4219	4283
60°	3719	3810	3951
65°	3328	3335	3515
70°	2967	2886	2989
75°	2680	2522	2476
80°	2381	2221	1959
85°	1951	1851	1532



TEST NUMBER: P738697

CATALOG NUMBER: 24PT-90-PL1-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.5	3.6
10°-20°	969.2	10.3
20°-30°	1468.4	15.6
30°-40°	1754.7	18.6
40°-50°	1770.1	18.8
50°-60°	1501.8	15.9
60°-70°	993.7	10.5
70°-80°	493.1	5.2
80°-90°	130.4	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°	2775.1	29.5
0°-40°	4529.8	48.1
0°-60°	7801.8	82.8
0°-90°	9419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3558	3558	3558	3558	3558	
5°	3563	3550	3547	3545	3552	339
15°	3446	3435	3432	3432	3439	972
25°	3193	3186	3186	3185	3196	1471
35°	2800	2796	2802	2817	2823	1750
45°	2278	2275	2288	2319	2333	1752
55°	1657	1661	1688	1703	1713	1473
65°	981	979	983	1014	1036	979
75°	484	470	455	441	447	518
85°	119	119	112	103	93	141
90°	0	0	0	0	0	



TEST NUMBER: P738697

CATALOG NUMBER: 24PT-90-PL1-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3558.5	3558.5	3558.5	3558.5	3558.5
2.5°	3570.7	3559.5	3556.4	3554.4	3562.6
5°	3562.6	3550.3	3547.2	3545.2	3552.3
7.5°	3546.2	3532.9	3530.8	3528.8	3538.0
10°	3519.6	3507.3	3505.3	3503.2	3511.4
12.5°	3487.9	3475.6	3471.5	3472.5	3477.7
15°	3445.9	3434.7	3431.6	3431.6	3438.8
17.5°	3393.8	3383.6	3381.5	3380.5	3389.7
20°	3335.5	3325.3	3325.3	3328.3	3333.4
22.5°	3269.0	3261.8	3257.7	3259.8	3270.0
25°	3193.3	3186.1	3186.1	3185.1	3196.4
27.5°	3109.4	3100.2	3100.2	3108.4	3112.5
30°	3015.3	3007.1	3011.2	3017.4	3021.5
32.5°	2914.1	2909.0	2912.0	2921.2	2937.6
35°	2800.5	2796.4	2801.6	2816.9	2823.0
37.5°	2681.9	2678.8	2686.0	2706.4	2723.8
40°	2546.9	2546.9	2566.3	2584.7	2601.1
42.5°	2406.7	2415.9	2430.3	2458.9	2473.2
45°	2277.9	2274.8	2288.1	2318.8	2333.1
47.5°	2134.7	2131.6	2151.0	2172.5	2196.0
50°	1978.2	1977.1	2000.7	2019.1	2048.7
52.5°	1825.8	1835.0	1850.3	1866.7	1884.1
55°	1657.0	1661.1	1687.7	1703.0	1713.3
57.5°	1474.9	1488.2	1521.0	1543.5	1552.7
60°	1297.0	1305.1	1328.7	1368.6	1377.8
62.5°	1135.4	1138.4	1152.7	1197.7	1210.0
65°	980.9	978.9	982.9	1013.6	1036.1
67.5°	840.8	832.6	832.6	849.0	876.6
70°	707.8	695.5	688.4	693.5	712.9
72.5°	596.3	580.0	561.5	558.5	570.7
75°	483.8	470.5	455.2	440.8	447.0
77.5°	385.6	374.4	360.0	343.7	335.5
80°	288.4	284.3	269.0	253.7	237.3
82.5°	201.5	198.4	188.2	175.9	165.7
85°	118.6	118.6	112.5	103.3	93.1
87.5°	53.2	51.1	53.2	45.0	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)