

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: P738538

Luminaire Tested: **24PT-45-PL1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738538
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-45-PL1-L850
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

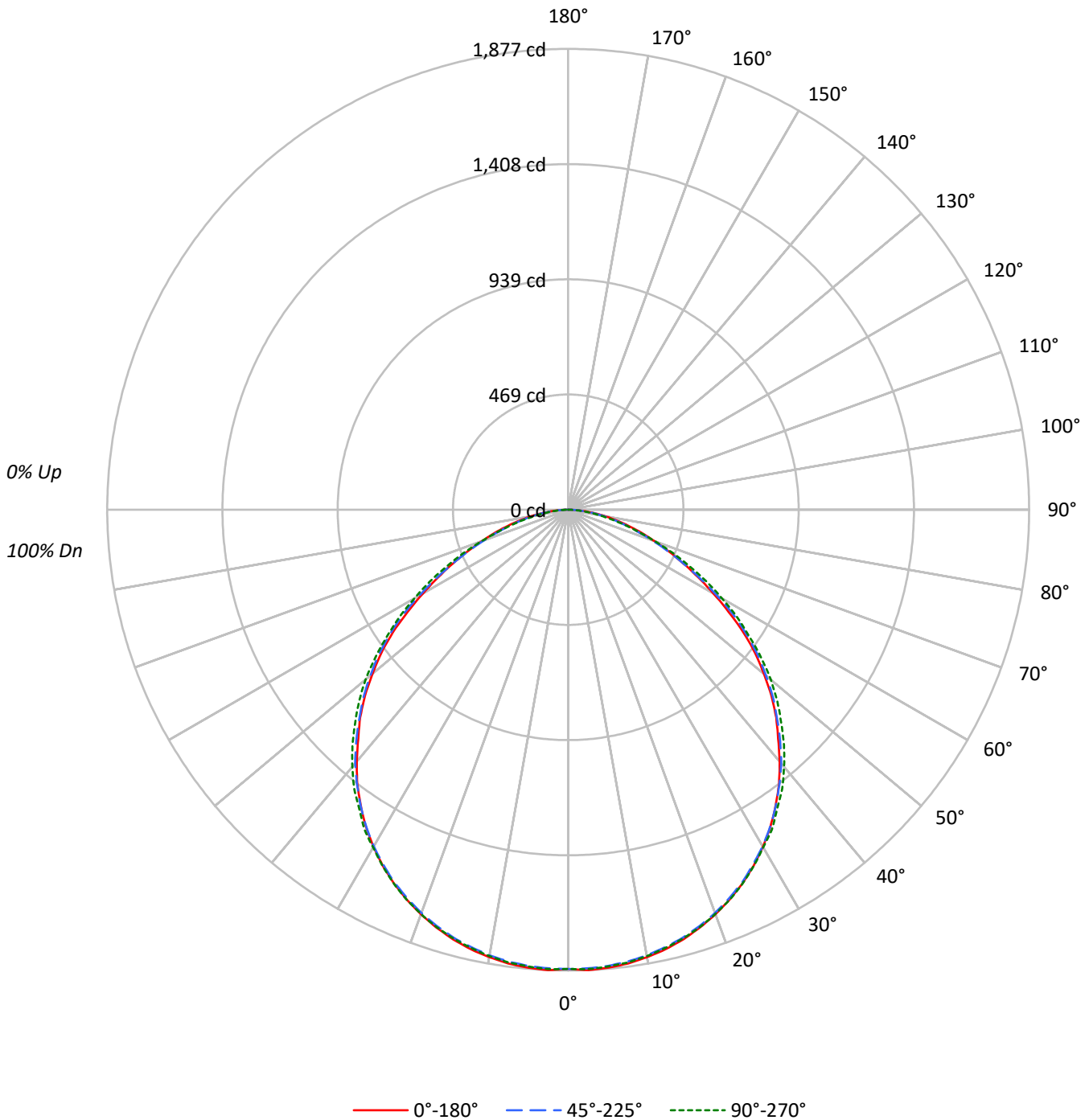
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4952.0 lumens
Efficiency: N/A
Efficacy: 133.1 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): 37.2
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°	2682	2682	2682
5°	2696	2684	2688
10°	2694	2683	2688
15°	2689	2678	2684
20°	2676	2668	2674
25°	2656	2650	2659
30°	2625	2621	2630
35°	2577	2578	2598
40°	2506	2525	2560
45°	2428	2439	2487
50°	2320	2346	2403
55°	2178	2218	2252
60°	1955	2003	2077
65°	1750	1753	1848
70°	1560	1517	1571
75°	1409	1326	1302
80°	1252	1168	1031
85°	1027	974	804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	3.6
10°-20°	509.6	10.3
20°-30°	772.0	15.6
30°-40°	922.6	18.6
40°-50°	930.6	18.8
50°-60°	789.6	15.9
60°-70°	522.4	10.5
70°-80°	259.3	5.2
80°-90°	68.6	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°	1459.0	29.5
0°-40°	2381.5	48.1
0°-60°	4101.8	82.8
0°-90°	4952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1873	1866	1865	1864	1868	178
15°	1812	1806	1804	1804	1808	511
25°	1679	1675	1675	1675	1680	773
35°	1472	1470	1473	1481	1484	920
45°	1198	1196	1203	1219	1227	921
55°	871	873	887	895	901	775
65°	516	515	517	533	545	515
75°	254	247	239	232	235	272
85°	62	62	59	54	49	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1870.8	1870.8	1870.8	1870.8	1870.8
2.5°	1877.3	1871.4	1869.8	1868.7	1873.0
5°	1873.0	1866.5	1864.9	1863.9	1867.6
7.5°	1864.4	1857.4	1856.3	1855.3	1860.1
10°	1850.4	1844.0	1842.9	1841.8	1846.1
12.5°	1833.7	1827.3	1825.1	1825.7	1828.4
15°	1811.7	1805.8	1804.2	1804.2	1807.9
17.5°	1784.3	1778.9	1777.8	1777.3	1782.1
20°	1753.6	1748.2	1748.2	1749.9	1752.5
22.5°	1718.7	1714.9	1712.7	1713.8	1719.2
25°	1678.9	1675.1	1675.1	1674.6	1680.5
27.5°	1634.8	1629.9	1629.9	1634.2	1636.4
30°	1585.3	1581.0	1583.1	1586.4	1588.5
32.5°	1532.1	1529.4	1531.0	1535.8	1544.4
35°	1472.4	1470.2	1472.9	1481.0	1484.2
37.5°	1410.0	1408.4	1412.1	1422.9	1432.0
40°	1339.0	1339.0	1349.2	1358.9	1367.5
42.5°	1265.3	1270.2	1277.7	1292.8	1300.3
45°	1197.6	1196.0	1203.0	1219.1	1226.6
47.5°	1122.3	1120.7	1130.9	1142.2	1154.6
50°	1040.0	1039.5	1051.8	1061.5	1077.1
52.5°	959.9	964.7	972.8	981.4	990.5
55°	871.2	873.3	887.3	895.4	900.7
57.5°	775.4	782.4	799.6	811.5	816.3
60°	681.9	686.2	698.5	719.5	724.4
62.5°	596.9	598.5	606.0	629.7	636.2
65°	515.7	514.6	516.8	532.9	544.7
67.5°	442.0	437.7	437.7	446.3	460.9
70°	372.1	365.7	361.9	364.6	374.8
72.5°	313.5	304.9	295.2	293.6	300.1
75°	254.4	247.4	239.3	231.8	235.0
77.5°	202.7	196.8	189.3	180.7	176.4
80°	151.6	149.5	141.4	133.4	124.8
82.5°	105.9	104.3	98.9	92.5	87.1
85°	62.4	62.4	59.2	54.3	48.9
87.5°	28.0	26.9	28.0	23.7	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)