

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: P738570

Luminaire Tested: **24PT-50-PL1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738570
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-50-PL1-L850
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

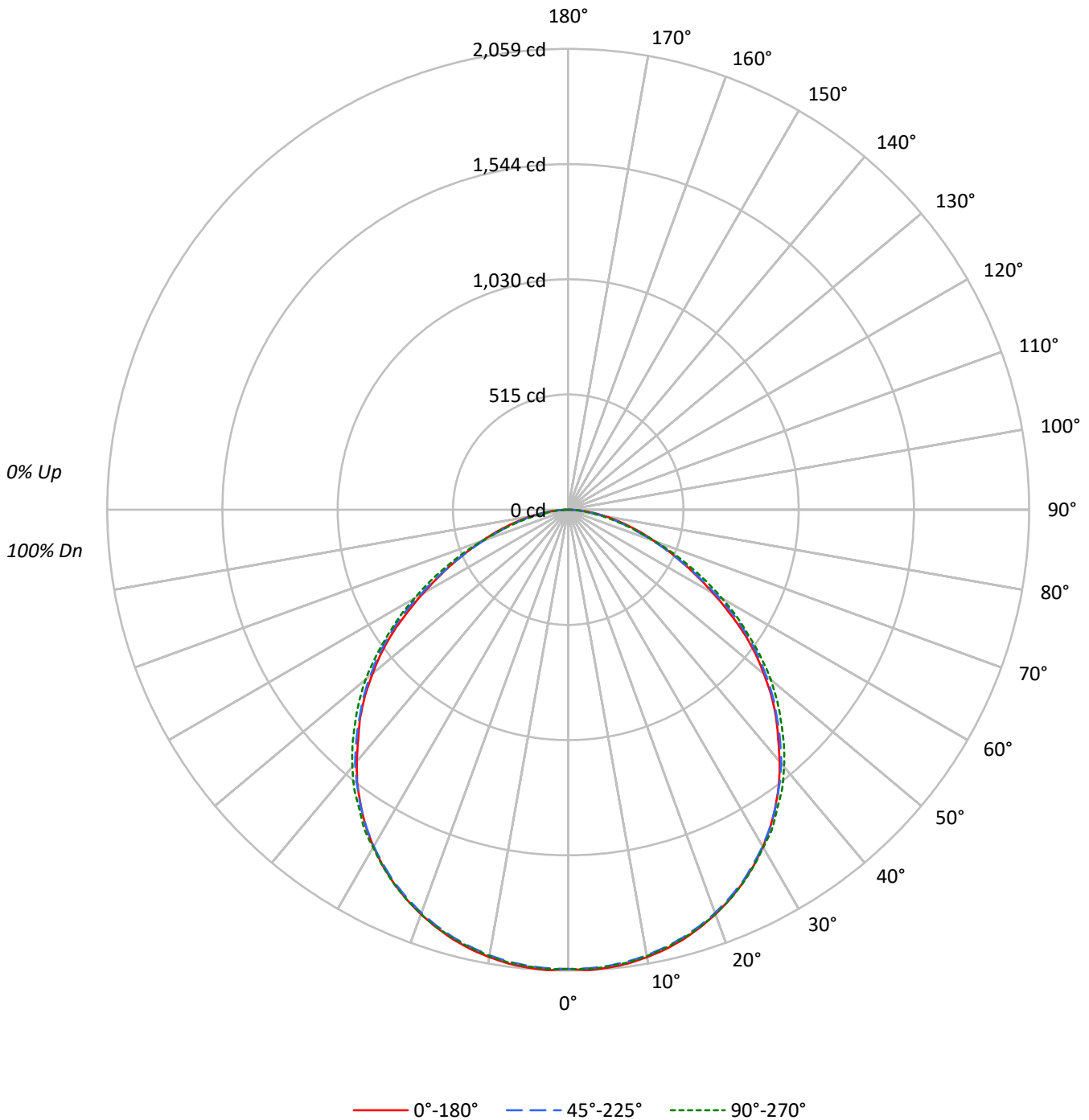
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5432.0 lumens
Efficiency: N/A
Efficacy: 132.5 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): 41
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	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°	2943	2943	2943
5°	2957	2944	2949
10°	2955	2943	2949
15°	2950	2938	2944
20°	2935	2926	2933
25°	2914	2907	2916
30°	2879	2875	2885
35°	2827	2828	2850
40°	2749	2770	2808
45°	2664	2676	2728
50°	2545	2574	2636
55°	2389	2433	2470
60°	2145	2198	2279
65°	1919	1923	2027
70°	1711	1664	1723
75°	1546	1454	1428
80°	1373	1281	1130
85°	1125	1068	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	3.6
10°-20°	558.9	10.3
20°-30°	846.8	15.6
30°-40°	1012.0	18.6
40°-50°	1020.9	18.8
50°-60°	866.1	15.9
60°-70°	573.1	10.5
70°-80°	284.4	5.2
80°-90°	75.2	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°	1600.4	29.5
0°-40°	2612.4	48.1
0°-60°	4499.3	82.8
0°-90°	5432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2052	2052	2052	2052	2052	
5°	2054	2048	2046	2044	2049	195
15°	1987	1981	1979	1979	1983	561
25°	1842	1838	1838	1837	1843	848
35°	1615	1613	1616	1624	1628	1009
45°	1314	1312	1320	1337	1346	1011
55°	956	958	973	982	988	850
65°	566	564	567	585	598	565
75°	279	271	262	254	258	299
85°	68	68	65	60	54	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2052.2	2052.2	2052.2	2052.2	2052.2
2.5°	2059.3	2052.8	2051.0	2049.8	2054.5
5°	2054.5	2047.5	2045.7	2044.5	2048.6
7.5°	2045.1	2037.4	2036.3	2035.1	2040.4
10°	2029.8	2022.7	2021.5	2020.3	2025.1
12.5°	2011.5	2004.4	2002.0	2002.6	2005.6
15°	1987.3	1980.8	1979.0	1979.0	1983.2
17.5°	1957.2	1951.3	1950.1	1949.5	1954.9
20°	1923.6	1917.7	1917.7	1919.5	1922.4
22.5°	1885.3	1881.1	1878.8	1879.9	1885.8
25°	1841.6	1837.5	1837.5	1836.9	1843.4
27.5°	1793.2	1787.9	1787.9	1792.6	1795.0
30°	1739.0	1734.2	1736.6	1740.1	1742.5
32.5°	1680.6	1677.6	1679.4	1684.7	1694.1
35°	1615.1	1612.7	1615.7	1624.5	1628.1
37.5°	1546.7	1544.9	1549.0	1560.8	1570.8
40°	1468.8	1468.8	1480.0	1490.6	1500.1
42.5°	1388.0	1393.3	1401.6	1418.1	1426.3
45°	1313.7	1311.9	1319.6	1337.3	1345.5
47.5°	1231.1	1229.3	1240.5	1252.9	1266.5
50°	1140.8	1140.2	1153.8	1164.4	1181.5
52.5°	1052.9	1058.2	1067.1	1076.5	1086.6
55°	955.6	958.0	973.3	982.1	988.0
57.5°	850.6	858.3	877.1	890.1	895.4
60°	748.0	752.7	766.3	789.3	794.6
62.5°	654.8	656.5	664.8	690.7	697.8
65°	565.7	564.5	566.9	584.6	597.5
67.5°	484.9	480.2	480.2	489.6	505.5
70°	408.2	401.1	397.0	399.9	411.1
72.5°	343.9	334.5	323.8	322.1	329.2
75°	279.0	271.3	262.5	254.2	257.8
77.5°	222.4	215.9	207.6	198.2	193.5
80°	166.3	164.0	155.1	146.3	136.9
82.5°	116.2	114.4	108.5	101.5	95.6
85°	68.4	68.4	64.9	59.6	53.7
87.5°	30.7	29.5	30.7	26.0	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)