

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: P738583

Luminaire Tested: **24PT-50-PW1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738583
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-50-PW1-L830
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

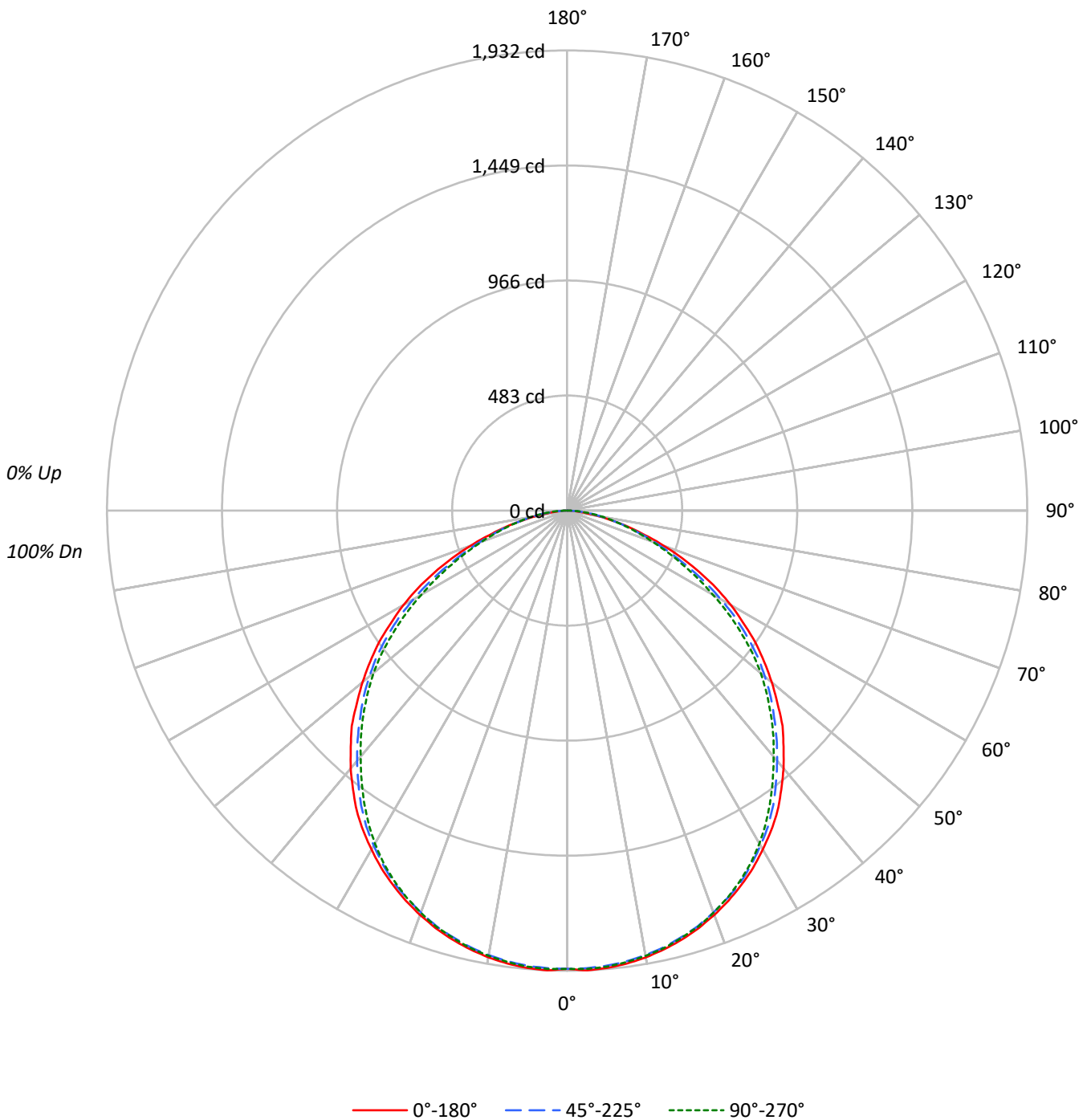
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5131.0 lumens
Efficiency: N/A
Efficacy: 125.1 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): 41
Input Voltage (V): NR
Input Current (A_{in}): 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°	2759	2759	2759
5°	2775	2761	2767
10°	2773	2760	2764
15°	2767	2752	2756
20°	2756	2740	2742
25°	2742	2726	2715
30°	2720	2689	2672
35°	2695	2641	2604
40°	2646	2568	2525
45°	2594	2493	2452
50°	2502	2417	2367
55°	2410	2307	2224
60°	2278	2138	2028
65°	2086	1904	1806
70°	1808	1651	1591
75°	1479	1424	1406
80°	1079	1217	1254
85°	722	1017	1079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	3.6
10°-20°	523.9	10.2
20°-30°	793.0	15.5
30°-40°	943.5	18.4
40°-50°	953.1	18.6
50°-60°	824.7	16.1
60°-70°	563.4	11.0
70°-80°	277.6	5.4
80°-90°	69.4	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°	1499.4	29.2
0°-40°	2442.9	47.6
0°-60°	4220.6	82.3
0°-90°	5131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1928	1920	1918	1916	1922	183
15°	1864	1858	1854	1853	1856	526
25°	1733	1726	1723	1716	1716	799
35°	1540	1527	1509	1492	1488	961
45°	1279	1257	1230	1216	1209	982
55°	964	951	923	904	890	859
65°	615	591	561	543	532	607
75°	267	259	257	255	254	285
85°	44	54	62	64	66	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1924.3	1924.3	1924.3	1924.3	1924.3
2.5°	1932.1	1924.9	1922.7	1921.0	1926.0
5°	1927.7	1920.4	1918.2	1916.5	1922.1
7.5°	1918.2	1911.0	1908.7	1907.1	1911.5
10°	1904.3	1897.6	1895.4	1893.7	1898.7
12.5°	1886.5	1880.4	1877.6	1875.4	1880.9
15°	1864.2	1858.1	1854.2	1853.1	1856.5
17.5°	1837.5	1831.4	1828.6	1827.0	1830.9
20°	1806.4	1799.7	1795.8	1793.6	1796.9
22.5°	1771.9	1765.2	1760.2	1758.0	1759.1
25°	1732.9	1726.3	1722.9	1716.3	1716.3
27.5°	1691.2	1683.4	1675.1	1667.9	1668.4
30°	1642.8	1633.9	1623.9	1614.5	1613.9
32.5°	1593.9	1582.7	1570.5	1557.7	1553.8
35°	1539.9	1527.1	1508.7	1492.1	1487.6
37.5°	1476.5	1464.8	1440.3	1426.4	1419.2
40°	1413.6	1396.9	1371.9	1355.8	1349.1
42.5°	1344.6	1328.5	1301.8	1286.8	1281.2
45°	1279.0	1257.3	1229.5	1215.6	1209.4
47.5°	1197.2	1179.4	1159.9	1143.8	1136.0
50°	1121.5	1107.1	1083.7	1065.9	1060.9
52.5°	1042.6	1030.3	1008.1	984.7	979.1
55°	964.1	950.8	922.9	903.5	889.6
57.5°	875.7	864.0	837.8	812.8	800.5
60°	794.4	774.4	745.5	718.2	707.1
62.5°	706.0	686.5	653.1	625.3	619.2
65°	614.7	591.4	561.3	543.0	532.4
67.5°	522.4	499.6	474.5	462.9	456.2
70°	431.2	412.8	393.9	385.5	379.4
72.5°	343.3	332.7	322.1	318.8	313.2
75°	267.0	259.2	257.0	255.4	253.7
77.5°	192.5	196.4	198.6	200.8	198.6
80°	130.7	139.1	147.4	151.9	151.9
82.5°	80.7	95.1	102.4	106.8	106.3
85°	43.9	54.5	61.8	64.0	65.6
87.5°	17.8	22.3	25.0	27.3	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)