

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: P738239

Luminaire Tested: **22PT-50-PL1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-851-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-50-PL1-L830
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

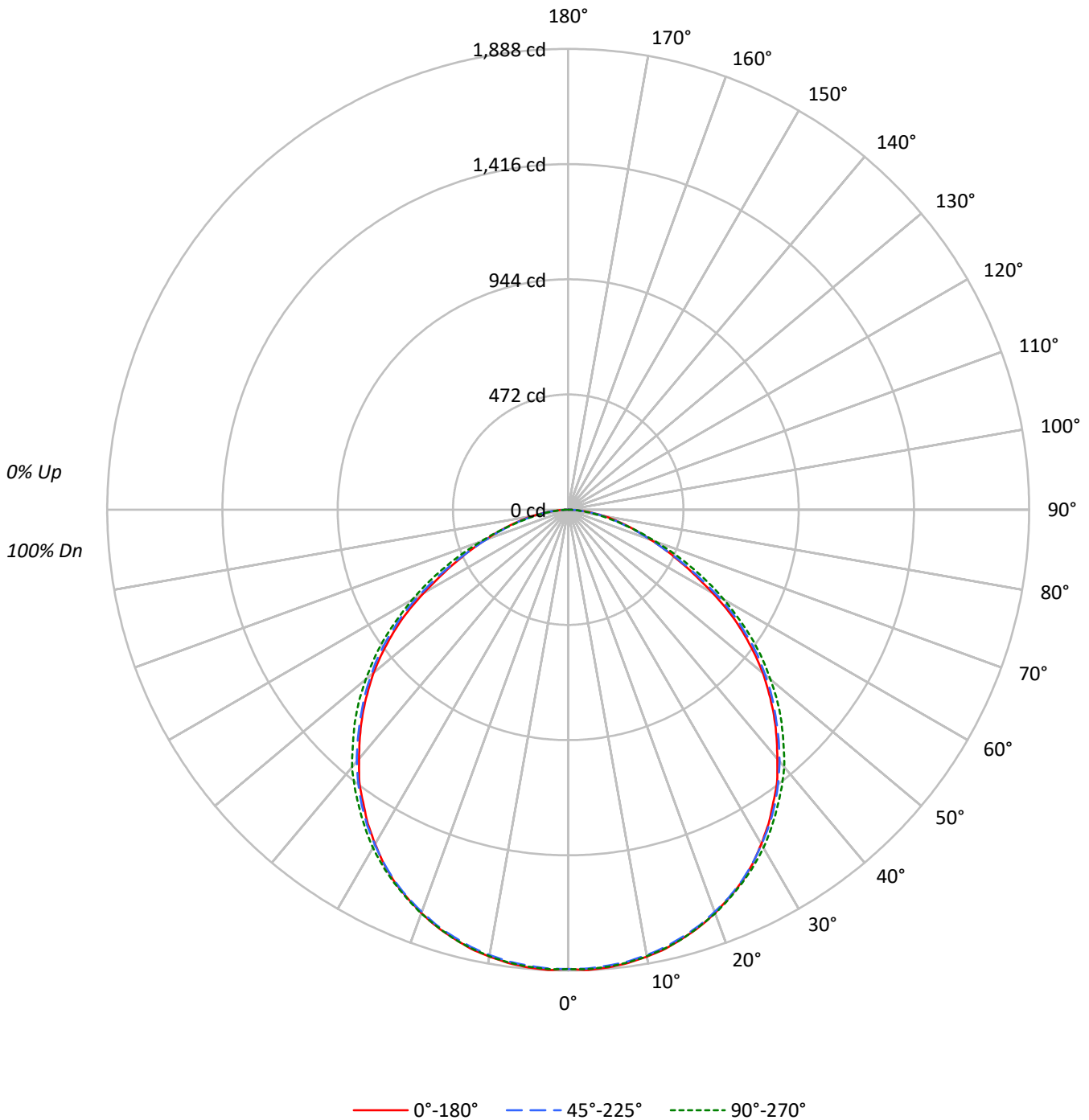
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4959.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
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	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	71	65	74	69	64	72	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	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	70	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	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5515	5515	5515
5°	5536	5515	5529
10°	5532	5513	5527
15°	5512	5496	5515
20°	5484	5466	5488
25°	5440	5430	5453
30°	5350	5361	5412
35°	5237	5274	5336
40°	5094	5152	5267
45°	4938	4981	5122
50°	4743	4800	4930
55°	4454	4542	4684
60°	4004	4139	4315
65°	3508	3580	3849
70°	3080	3052	3249
75°	2770	2654	2663
80°	2485	2352	2097
85°	1970	1943	1597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	3.6
10°-20°	511.9	10.3
20°-30°	774.2	15.6
30°-40°	923.1	18.6
40°-50°	932.0	18.8
50°-60°	795.1	16.0
60°-70°	522.5	10.5
70°-80°	255.8	5.2
80°-90°	65.9	1.3
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°	1464.6	29.5
0°-40°	2387.7	48.1
0°-60°	4114.8	83.0
0°-90°	4959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1882	1878	1875	1875	1880	179
15°	1817	1814	1812	1812	1818	513
25°	1683	1679	1680	1682	1687	774
35°	1464	1468	1474	1485	1492	916
45°	1192	1195	1202	1226	1236	918
55°	872	877	889	910	917	776
65°	506	506	516	540	555	506
75°	245	242	234	233	235	262
85°	59	59	58	53	48	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1882.2	1882.2	1882.2	1882.2	1882.2
2.5°	1887.7	1883.8	1881.4	1879.8	1883.8
5°	1882.2	1878.2	1875.0	1875.0	1879.8
7.5°	1873.5	1869.5	1867.1	1866.3	1871.1
10°	1859.2	1854.5	1852.9	1852.1	1857.6
12.5°	1842.6	1835.5	1835.5	1834.7	1840.2
15°	1817.2	1814.1	1811.7	1812.5	1818.0
17.5°	1791.1	1787.9	1786.4	1786.4	1789.5
20°	1758.6	1754.7	1753.1	1754.7	1760.2
22.5°	1721.4	1719.1	1719.1	1720.6	1724.6
25°	1682.6	1678.7	1679.5	1681.8	1686.6
27.5°	1635.1	1634.3	1634.3	1639.9	1645.4
30°	1581.3	1581.3	1584.4	1592.4	1599.5
32.5°	1526.6	1525.9	1532.2	1539.3	1547.2
35°	1464.1	1468.0	1474.4	1484.7	1491.8
37.5°	1405.5	1404.7	1412.6	1430.8	1435.6
40°	1331.9	1337.4	1346.9	1365.1	1377.0
42.5°	1263.0	1266.9	1275.6	1297.0	1304.9
45°	1191.7	1194.9	1202.0	1225.7	1236.0
47.5°	1116.5	1120.4	1130.7	1150.5	1162.4
50°	1040.5	1046.0	1053.1	1072.1	1081.6
52.5°	957.3	964.4	977.1	994.5	1001.7
55°	871.8	876.6	889.2	909.8	916.9
57.5°	782.3	786.3	804.5	819.5	825.1
60°	683.3	688.1	706.3	730.1	736.4
62.5°	589.9	593.9	609.7	638.2	647.7
65°	506.0	506.0	516.3	540.0	555.1
67.5°	431.5	430.0	431.5	449.8	465.6
70°	359.5	360.3	356.3	367.4	379.3
72.5°	300.1	300.1	292.2	293.8	303.3
75°	244.7	242.3	234.4	232.8	235.2
77.5°	195.6	191.6	185.3	180.5	175.0
80°	147.3	144.1	139.4	132.2	124.3
82.5°	102.9	99.8	96.6	92.6	84.7
85°	58.6	58.6	57.8	53.1	47.5
87.5°	23.8	23.0	22.2	21.4	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)