

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: P737855

Luminaire Tested: **14PT-50-PL1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-50-PL1-L830
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

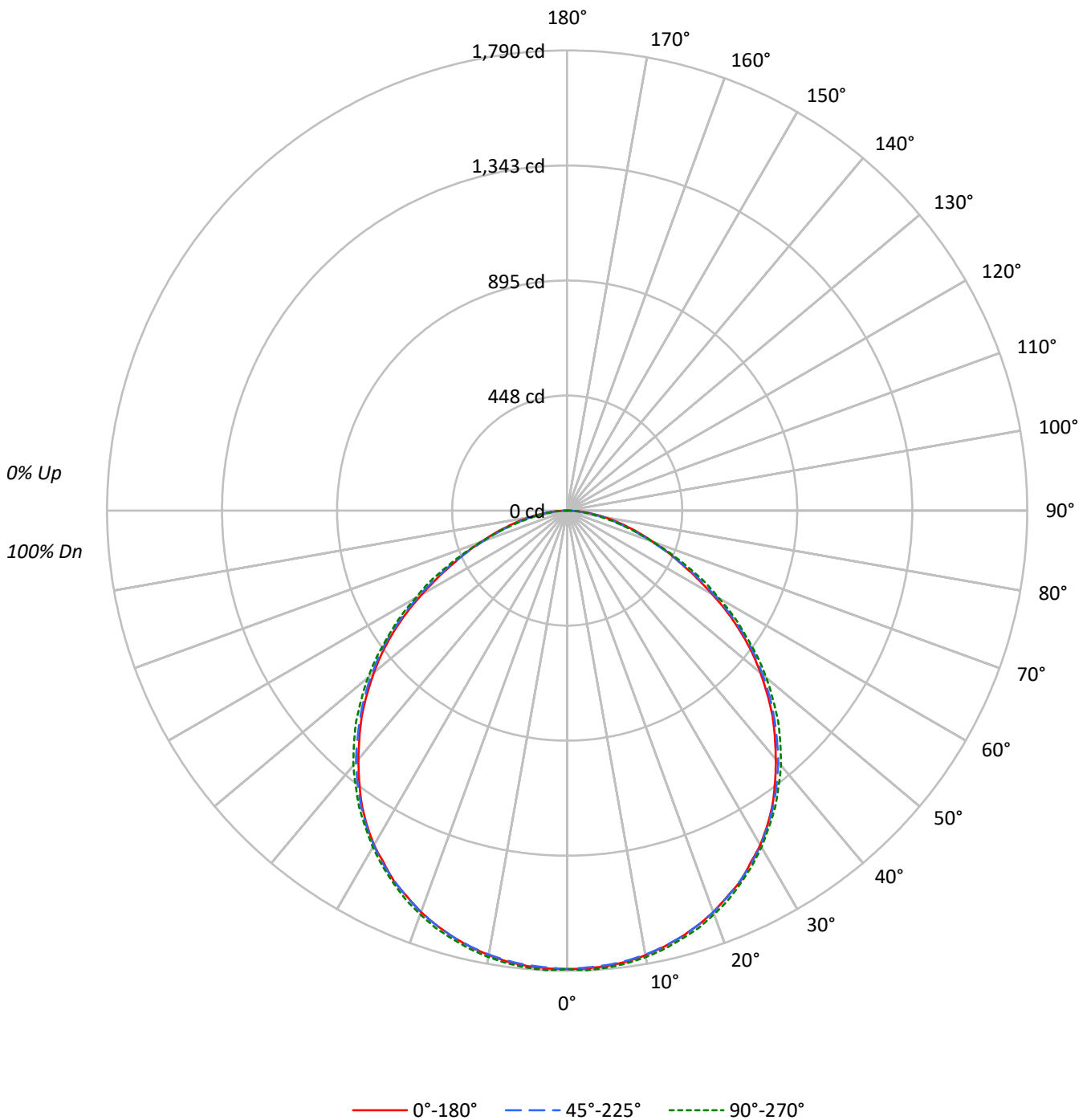
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4702.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	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	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5348	5348	5348
5°	5352	5342	5372
10°	5346	5340	5370
15°	5329	5327	5354
20°	5303	5303	5333
25°	5267	5260	5289
30°	5200	5207	5232
35°	5101	5121	5162
40°	4943	5000	5064
45°	4789	4828	4920
50°	4577	4627	4719
55°	4311	4380	4432
60°	3911	3995	4094
65°	3474	3512	3652
70°	3105	3042	3117
75°	2802	2641	2588
80°	2545	2362	2099
85°	2160	1954	1682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	3.6
10°-20°	485.3	10.3
20°-30°	734.1	15.6
30°-40°	875.0	18.6
40°-50°	879.9	18.7
50°-60°	746.7	15.9
60°-70°	497.2	10.6
70°-80°	248.3	5.3
80°-90°	66.4	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°	1388.6	29.5
0°-40°	2263.6	48.1
0°-60°	3890.1	82.7
0°-90°	4702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1778	1779	1775	1783	1785	169
15°	1717	1719	1716	1724	1725	484
25°	1592	1592	1590	1597	1599	732
35°	1394	1395	1399	1409	1410	869
45°	1129	1131	1139	1154	1160	869
55°	825	831	838	846	848	735
65°	490	494	495	502	515	491
75°	242	239	228	223	223	260
85°	63	62	57	54	49	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.7	1783.7	1783.7	1783.7	1783.7
2.5°	1782.4	1783.7	1779.1	1787.7	1789.7
5°	1778.4	1779.1	1775.1	1783.1	1785.0
7.5°	1769.8	1770.5	1766.5	1775.1	1776.5
10°	1756.0	1757.3	1754.0	1761.9	1763.9
12.5°	1738.1	1740.1	1736.8	1745.4	1746.7
15°	1717.0	1719.0	1716.3	1723.6	1724.9
17.5°	1691.2	1692.5	1691.2	1697.8	1701.8
20°	1662.1	1662.1	1662.1	1668.1	1671.4
22.5°	1625.8	1629.1	1627.8	1635.7	1639.0
25°	1592.1	1592.1	1590.1	1597.4	1598.7
27.5°	1545.1	1550.4	1549.8	1556.4	1557.7
30°	1502.2	1503.5	1504.2	1508.8	1511.4
32.5°	1450.0	1451.3	1453.3	1459.9	1460.5
35°	1393.8	1395.1	1399.1	1409.0	1410.3
37.5°	1328.4	1335.6	1338.9	1349.5	1350.8
40°	1262.9	1267.6	1277.5	1288.7	1294.0
42.5°	1196.2	1201.5	1207.4	1222.6	1227.3
45°	1129.4	1131.4	1138.7	1153.9	1160.5
47.5°	1055.4	1061.4	1068.0	1081.2	1085.2
50°	981.4	988.0	992.0	1003.9	1011.8
52.5°	906.7	912.7	917.3	924.6	932.5
55°	824.8	830.7	838.0	845.9	847.9
57.5°	741.5	748.1	752.7	761.3	769.9
60°	652.3	659.6	666.2	674.1	682.7
62.5°	569.0	572.3	578.9	592.2	604.7
65°	489.7	493.7	495.0	502.3	514.8
67.5°	423.6	423.6	417.7	420.3	434.2
70°	354.2	351.6	347.0	344.3	355.6
72.5°	298.1	294.8	284.8	280.2	286.2
75°	241.9	238.6	228.0	222.7	223.4
77.5°	194.3	189.0	180.4	171.2	169.2
80°	147.4	145.4	136.8	128.2	121.6
82.5°	104.4	99.8	95.2	89.9	84.6
85°	62.8	61.5	56.8	53.5	48.9
87.5°	25.8	25.8	24.5	23.1	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)