

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: P737879

Luminaire Tested: **14PT-50-PW1-L830**

Issue Date: 2/8/2024



**Test Information**

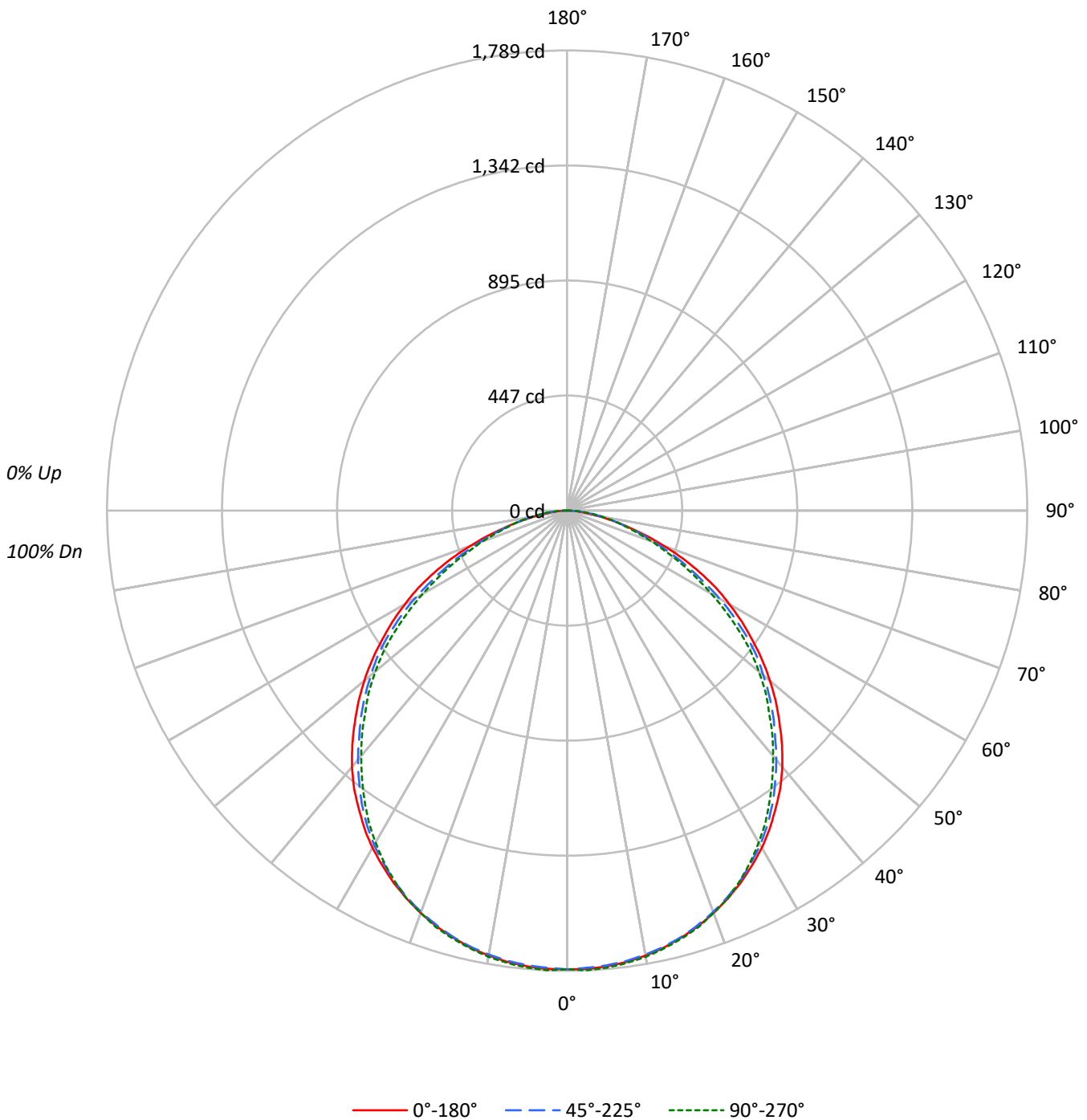
Test Method: LM-79-08  
Report Number: P737879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PT-50-PW1-L830  
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4733.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34  
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<sub>in</sub>): 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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5347	5347	5347
5°	5352	5340	5367
10°	5349	5337	5363
15°	5333	5325	5345
20°	5311	5298	5311
25°	5281	5259	5255
30°	5241	5195	5159
35°	5171	5094	5028
40°	5092	4953	4875
45°	4951	4805	4707
50°	4802	4645	4537
55°	4601	4446	4269
60°	4363	4105	3891
65°	4037	3666	3483
70°	3498	3192	3070
75°	2794	2733	2656
80°	2122	2372	2372
85°	1569	2023	2023



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.1	3.6
10°-20°	485.1	10.2
20°-30°	733.2	15.5
30°-40°	870.6	18.4
40°-50°	877.1	18.5
50°-60°	758.1	16.0
60°-70°	518.1	10.9
70°-80°	255.5	5.4
80°-90°	66.1	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°	1387.4	29.3
0°-40°	2258.0	47.7
0°-60°	3893.2	82.3
0°-90°	4733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1778	1779	1774	1782	1784	169
15°	1718	1720	1716	1721	1722	485
25°	1596	1595	1590	1591	1589	735
35°	1413	1408	1392	1379	1374	884
45°	1168	1155	1133	1120	1110	901
55°	880	878	850	825	817	787
65°	569	548	517	494	491	562
75°	241	239	236	236	229	263
85°	46	54	59	60	59	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1783.5	1783.5	1783.5	1783.5	1783.5
2.5°	1782.9	1783.5	1778.9	1786.8	1788.8
5°	1778.3	1778.9	1774.3	1781.6	1783.5
7.5°	1769.7	1771.0	1765.7	1773.0	1774.3
10°	1757.1	1757.8	1753.1	1760.4	1761.7
12.5°	1739.9	1740.6	1736.6	1743.2	1743.2
15°	1718.1	1720.1	1715.5	1721.4	1722.1
17.5°	1693.7	1694.3	1689.7	1696.3	1697.6
20°	1664.6	1664.6	1660.6	1665.9	1664.6
22.5°	1632.2	1632.2	1627.6	1630.2	1631.6
25°	1596.5	1595.2	1589.9	1591.2	1588.6
27.5°	1555.6	1555.6	1546.3	1546.3	1541.7
30°	1513.9	1510.6	1500.7	1494.8	1490.1
32.5°	1466.4	1461.7	1449.2	1438.6	1435.3
35°	1412.8	1408.2	1391.7	1379.1	1373.8
37.5°	1361.3	1350.7	1328.9	1316.3	1310.4
40°	1301.1	1287.9	1265.5	1248.3	1245.6
42.5°	1236.4	1225.8	1196.7	1184.2	1180.9
45°	1167.7	1155.1	1133.3	1120.1	1110.2
47.5°	1100.3	1091.0	1065.9	1050.0	1046.7
50°	1029.6	1021.6	995.9	978.7	972.7
52.5°	956.2	950.9	929.1	907.3	900.0
55°	880.2	877.6	850.5	825.4	816.8
57.5°	805.5	802.2	768.5	739.5	731.5
60°	727.6	717.6	684.6	657.5	648.9
62.5°	653.5	632.4	596.7	575.6	565.7
65°	569.0	548.5	516.8	494.3	491.0
67.5°	485.7	461.3	436.8	422.9	412.3
70°	399.1	382.6	364.1	352.2	350.2
72.5°	318.5	306.6	297.4	290.1	284.2
75°	241.2	239.2	235.9	235.9	229.3
77.5°	177.1	181.7	184.4	183.7	185.0
80°	122.9	132.2	137.4	138.1	137.4
82.5°	78.0	88.5	97.1	98.5	99.8
85°	45.6	53.5	58.8	60.1	58.8
87.5°	20.5	25.8	27.1	28.4	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)