

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: P738263

Luminaire Tested: **22PT-50-PW1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506233)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-50-PW1-L830
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

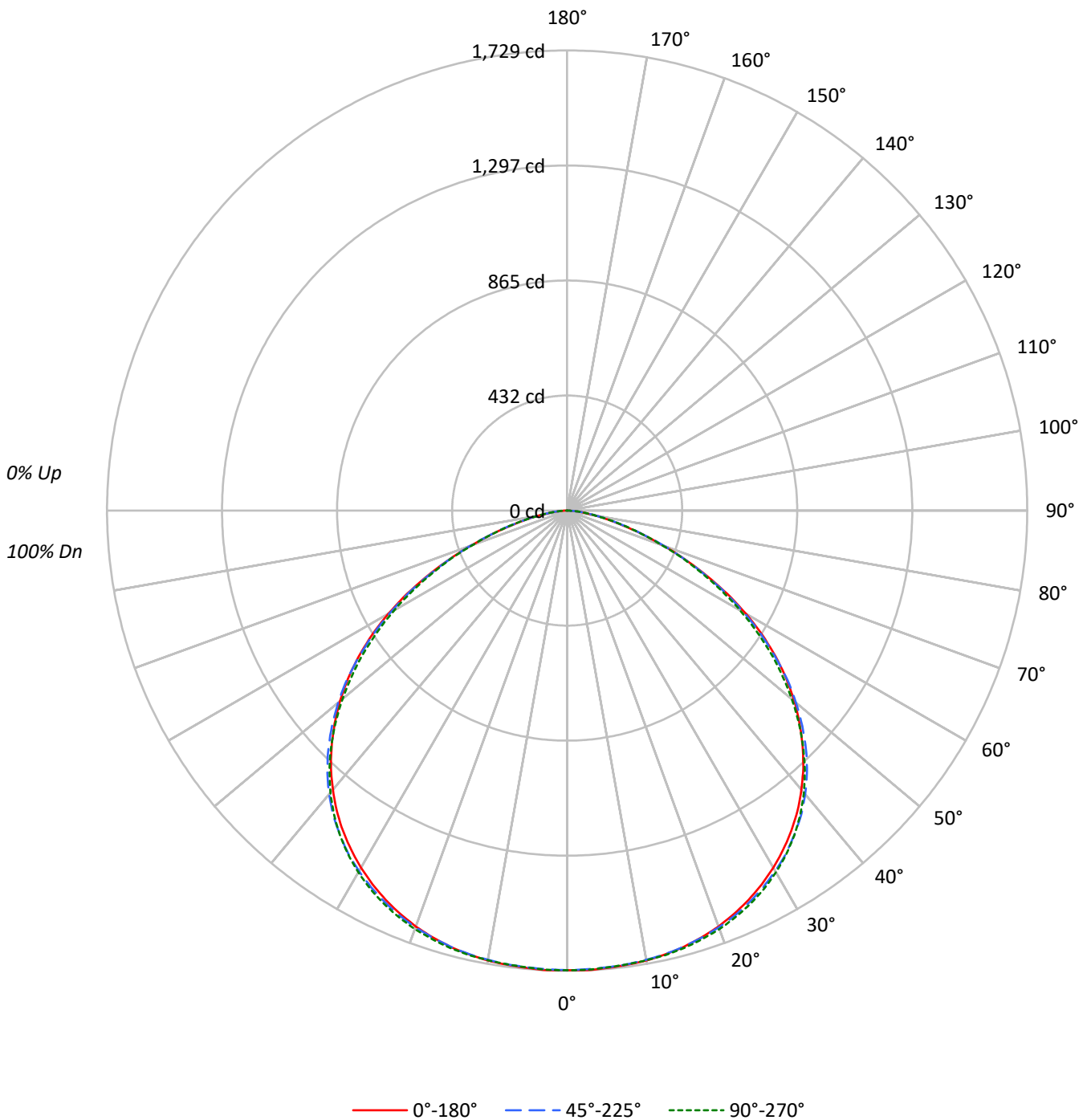
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4992.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44
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 (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	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	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5060	5060	5060
5°	5074	5067	5068
10°	5107	5100	5105
15°	5147	5145	5160
20°	5185	5196	5218
25°	5216	5246	5270
30°	5242	5292	5311
35°	5255	5323	5325
40°	5239	5323	5293
45°	5187	5261	5197
50°	5081	5118	5025
55°	4884	4862	4771
60°	4547	4496	4402
65°	4009	3971	3894
70°	3284	3299	3231
75°	2487	2571	2551
80°	1802	1875	1844
85°	1180	1224	1308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	3.3
10°-20°	479.6	9.6
20°-30°	747.8	15.0
30°-40°	926.8	18.6
40°-50°	969.8	19.4
50°-60°	845.1	16.9
60°-70°	566.1	11.3
70°-80°	245.4	4.9
80°-90°	47.2	0.9
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°	1391.6	27.9
0°-40°	2318.4	46.4
0°-60°	4133.2	82.8
0°-90°	4992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1725	1723	1723	1722	1723	164
15°	1697	1694	1696	1698	1701	479
25°	1613	1614	1623	1628	1630	744
35°	1469	1474	1488	1490	1489	918
45°	1252	1258	1270	1259	1254	964
55°	956	955	952	941	934	851
65°	578	575	573	567	562	572
75°	220	224	227	225	225	242
85°	35	38	36	37	39	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.0	1727.0	1727.0	1727.0	1727.0
2.5°	1728.8	1725.7	1725.0	1725.0	1727.0
5°	1725.0	1723.2	1722.6	1722.1	1723.2
7.5°	1721.4	1719.0	1719.6	1718.3	1719.6
10°	1716.5	1714.0	1714.0	1714.0	1715.8
12.5°	1707.8	1706.0	1706.6	1707.8	1710.3
15°	1696.6	1694.2	1696.1	1697.9	1701.1
17.5°	1681.2	1679.4	1682.5	1685.6	1688.1
20°	1662.8	1660.9	1666.4	1670.9	1673.3
22.5°	1639.9	1639.4	1646.7	1651.7	1653.5
25°	1613.4	1613.9	1622.6	1627.5	1630.0
27.5°	1583.1	1584.4	1595.5	1599.8	1602.3
30°	1549.3	1552.2	1564.0	1567.7	1569.6
32.5°	1510.9	1515.3	1529.4	1531.9	1531.9
35°	1469.0	1474.4	1488.1	1489.9	1488.7
37.5°	1422.1	1428.2	1443.6	1441.1	1439.3
40°	1369.6	1376.3	1391.7	1386.8	1383.9
42.5°	1313.5	1320.2	1333.8	1326.4	1322.0
45°	1251.8	1258.5	1269.6	1259.1	1254.2
47.5°	1185.0	1193.0	1198.6	1186.9	1180.7
50°	1114.7	1117.2	1122.8	1109.2	1102.3
52.5°	1038.1	1038.1	1042.5	1027.6	1019.6
55°	956.0	955.4	951.8	941.3	933.9
57.5°	869.1	865.3	862.8	851.7	843.1
60°	775.9	770.3	767.2	758.0	751.1
62.5°	678.4	675.3	671.5	664.1	656.7
65°	578.3	575.2	572.7	567.3	561.7
67.5°	479.0	477.0	477.0	473.4	472.8
70°	383.3	384.5	385.1	385.1	377.1
72.5°	296.9	297.5	300.6	298.2	297.5
75°	219.7	223.5	227.1	225.3	225.3
77.5°	158.0	163.6	163.6	162.3	160.5
80°	106.8	109.3	111.1	110.4	109.3
82.5°	67.9	69.7	67.9	69.1	69.7
85°	35.1	37.6	36.4	37.1	38.9
87.5°	11.7	13.0	13.6	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)