

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: P738218

Luminaire Tested: **22PT-45-PW1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738218
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-45-PW1-L850
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

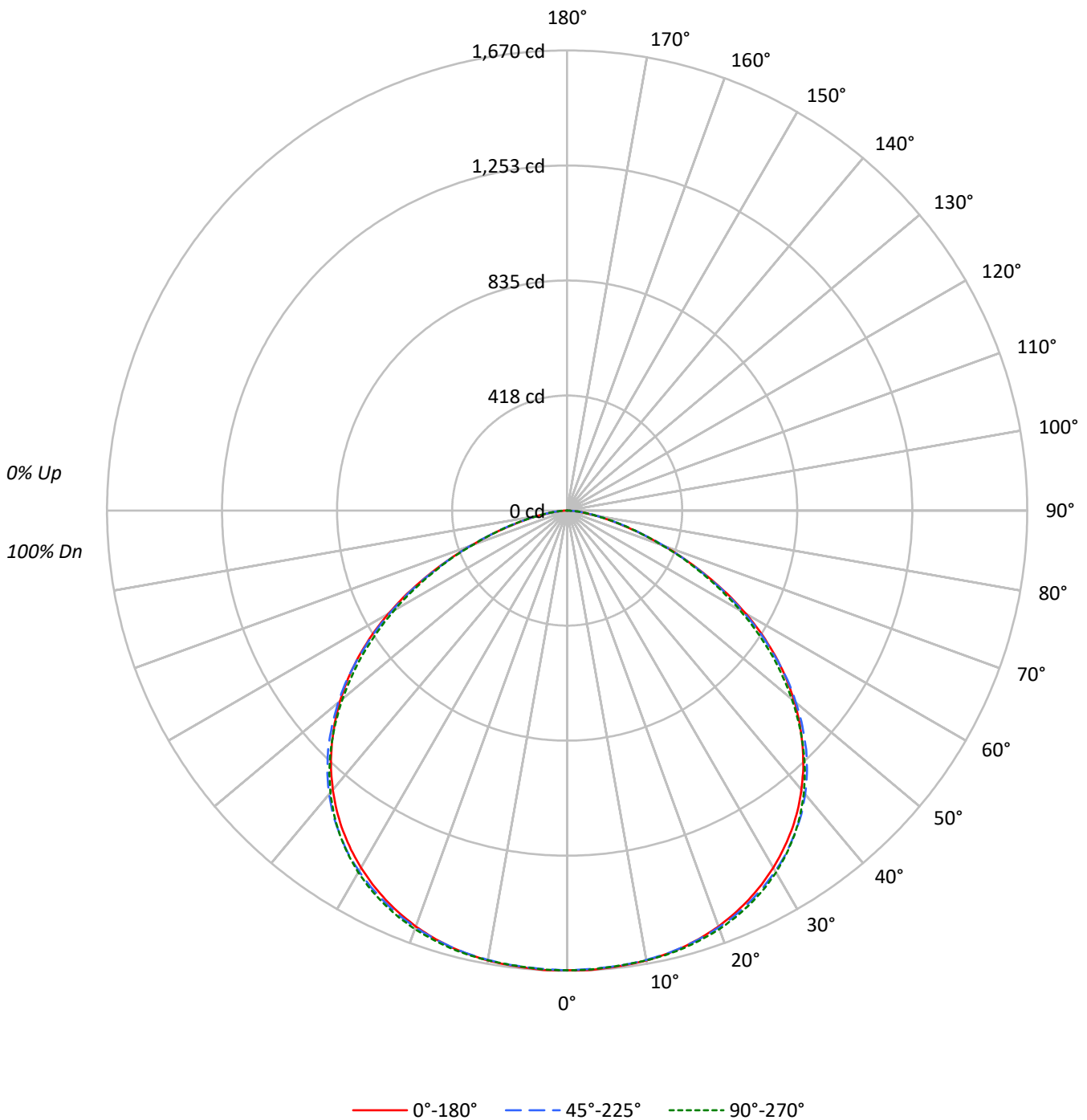
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4822.0 lumens
Efficiency: N/A
Efficacy: 136.6 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): 35.3
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

TEST NUMBER: P738218
CATALOG NUMBER: 22PT-45-PW1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P738218

CATALOG NUMBER: 22PT-45-PW1-L850

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°	4888	4888	4888
5°	4901	4894	4896
10°	4933	4926	4931
15°	4971	4970	4984
20°	5008	5019	5040
25°	5039	5067	5090
30°	5063	5112	5130
35°	5076	5142	5144
40°	5060	5142	5113
45°	5010	5082	5020
50°	4908	4944	4853
55°	4718	4697	4608
60°	4392	4342	4252
65°	3873	3835	3762
70°	3172	3187	3121
75°	2402	2484	2463
80°	1741	1811	1782
85°	1140	1183	1264



TEST NUMBER: P738218

CATALOG NUMBER: 22PT-45-PW1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.3
10°-20°	463.3	9.6
20°-30°	722.3	15.0
30°-40°	895.2	18.6
40°-50°	936.8	19.4
50°-60°	816.3	16.9
60°-70°	546.8	11.3
70°-80°	237.0	4.9
80°-90°	45.6	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°	1344.2	27.9
0°-40°	2239.4	46.4
0°-60°	3992.5	82.8
0°-90°	4822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1666	1664	1664	1663	1664	159
15°	1639	1636	1638	1640	1643	463
25°	1558	1559	1567	1572	1574	719
35°	1419	1424	1437	1439	1438	887
45°	1209	1216	1226	1216	1212	931
55°	924	923	919	909	902	822
65°	559	556	553	548	543	553
75°	212	216	219	218	218	234
85°	34	36	35	36	38	44
90°	0	0	0	0	0	



TEST NUMBER: P738218

CATALOG NUMBER: 22PT-45-PW1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.2	1668.2	1668.2	1668.2	1668.2
2.5°	1669.9	1666.9	1666.3	1666.3	1668.2
5°	1666.3	1664.5	1663.9	1663.4	1664.5
7.5°	1662.8	1660.4	1661.0	1659.8	1661.0
10°	1658.0	1655.7	1655.7	1655.7	1657.4
12.5°	1649.6	1647.9	1648.5	1649.6	1652.0
15°	1638.9	1636.5	1638.4	1640.1	1643.1
17.5°	1624.0	1622.2	1625.2	1628.2	1630.6
20°	1606.2	1604.3	1609.7	1614.0	1616.3
22.5°	1584.0	1583.5	1590.7	1595.4	1597.2
25°	1558.5	1559.0	1567.4	1572.1	1574.5
27.5°	1529.2	1530.4	1541.2	1545.3	1547.7
30°	1496.5	1499.4	1510.8	1514.3	1516.2
32.5°	1459.4	1463.7	1477.3	1479.7	1479.7
35°	1419.0	1424.2	1437.4	1439.1	1438.0
37.5°	1373.7	1379.5	1394.4	1392.1	1390.3
40°	1322.9	1329.4	1344.3	1339.6	1336.7
42.5°	1268.7	1275.2	1288.4	1281.3	1277.0
45°	1209.1	1215.6	1226.4	1216.3	1211.5
47.5°	1144.6	1152.4	1157.8	1146.5	1140.5
50°	1076.8	1079.2	1084.5	1071.4	1064.7
52.5°	1002.7	1002.7	1007.0	992.6	984.8
55°	923.5	922.9	919.4	909.2	902.1
57.5°	839.5	835.8	833.5	822.7	814.4
60°	749.4	744.1	741.0	732.2	725.5
62.5°	655.3	652.3	648.6	641.5	634.4
65°	558.6	555.6	553.2	548.0	542.6
67.5°	462.7	460.8	460.8	457.3	456.7
70°	370.3	371.4	372.0	372.0	364.3
72.5°	286.7	287.4	290.4	288.0	287.4
75°	212.2	215.9	219.4	217.6	217.6
77.5°	152.6	158.0	158.0	156.8	155.0
80°	103.2	105.6	107.3	106.7	105.6
82.5°	65.6	67.4	65.6	66.7	67.4
85°	33.9	36.3	35.2	35.8	37.6
87.5°	11.3	12.5	13.2	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)