

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: P738217

Luminaire Tested: **22PT-45-PW1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738217
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-L840
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

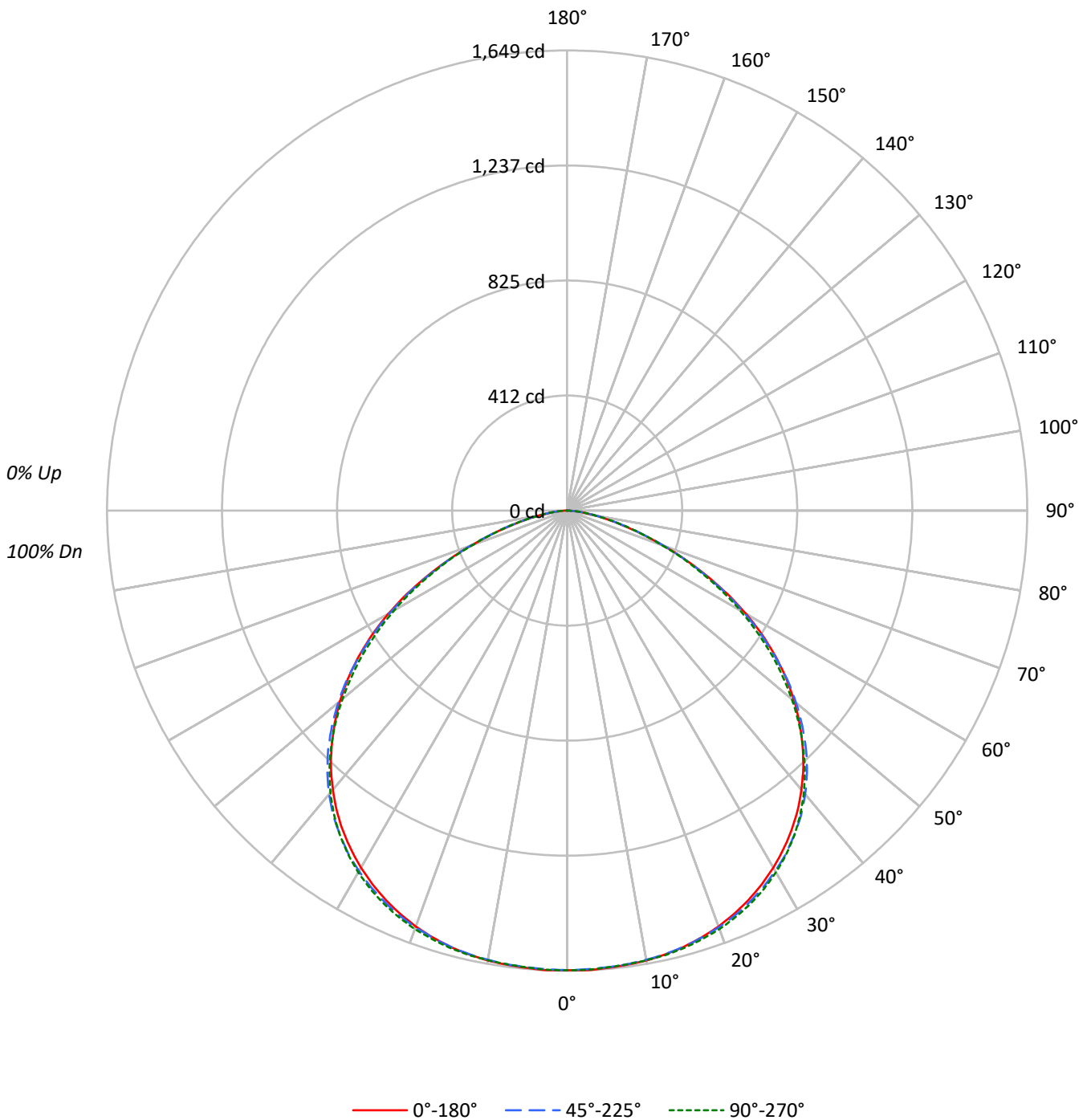
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4761.0 lumens
Efficiency: N/A
Efficacy: 134.9 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 (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°	4826	4826	4826
5°	4839	4832	4834
10°	4871	4864	4869
15°	4908	4907	4921
20°	4945	4956	4976
25°	4975	5003	5026
30°	4999	5047	5065
35°	5011	5076	5079
40°	4996	5077	5048
45°	4947	5018	4957
50°	4846	4881	4792
55°	4658	4637	4550
60°	4336	4288	4198
65°	3824	3787	3714
70°	3132	3147	3082
75°	2373	2452	2433
80°	1719	1789	1758
85°	1126	1167	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	3.3
10°-20°	457.4	9.6
20°-30°	713.2	15.0
30°-40°	883.9	18.6
40°-50°	924.9	19.4
50°-60°	806.0	16.9
60°-70°	539.9	11.3
70°-80°	234.0	4.9
80°-90°	45.1	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°	1327.2	27.9
0°-40°	2211.1	46.4
0°-60°	3942.0	82.8
0°-90°	4761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1645	1644	1643	1642	1644	157
15°	1618	1616	1618	1619	1622	457
25°	1539	1539	1548	1552	1555	710
35°	1401	1406	1419	1421	1420	876
45°	1194	1200	1211	1201	1196	919
55°	912	911	908	898	891	812
65°	552	549	546	541	536	546
75°	210	213	217	215	215	231
85°	34	36	35	35	37	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1647.1	1647.1	1647.1	1647.1	1647.1
2.5°	1648.8	1645.8	1645.2	1645.2	1647.1
5°	1645.2	1643.5	1642.9	1642.4	1643.5
7.5°	1641.8	1639.4	1640.0	1638.8	1640.0
10°	1637.1	1634.7	1634.7	1634.7	1636.4
12.5°	1628.8	1627.0	1627.7	1628.8	1631.1
15°	1618.1	1615.8	1617.7	1619.4	1622.3
17.5°	1603.4	1601.7	1604.7	1607.6	1610.0
20°	1585.9	1584.0	1589.3	1593.6	1595.9
22.5°	1564.0	1563.5	1570.5	1575.2	1577.0
25°	1538.8	1539.2	1547.5	1552.2	1554.6
27.5°	1509.8	1511.1	1521.7	1525.8	1528.1
30°	1477.6	1480.4	1491.7	1495.1	1497.0
32.5°	1441.0	1445.2	1458.6	1461.0	1461.0
35°	1401.0	1406.2	1419.2	1420.9	1419.8
37.5°	1356.3	1362.1	1376.8	1374.4	1372.7
40°	1306.2	1312.6	1327.3	1322.6	1319.8
42.5°	1252.7	1259.1	1272.1	1265.0	1260.8
45°	1193.8	1200.3	1210.9	1200.9	1196.2
47.5°	1130.1	1137.8	1143.1	1132.0	1126.1
50°	1063.2	1065.5	1070.8	1057.8	1051.3
52.5°	990.1	990.1	994.3	980.0	972.4
55°	911.8	911.2	907.7	897.7	890.7
57.5°	828.9	825.3	822.9	812.3	804.1
60°	740.0	734.6	731.7	722.9	716.3
62.5°	647.0	644.0	640.4	633.4	626.3
65°	551.5	548.6	546.2	541.0	535.7
67.5°	456.8	455.0	455.0	451.5	450.9
70°	365.6	366.7	367.3	367.3	359.7
72.5°	283.1	283.7	286.7	284.4	283.7
75°	209.6	213.2	216.6	214.9	214.9
77.5°	150.7	156.0	156.0	154.8	153.1
80°	101.9	104.2	106.0	105.3	104.2
82.5°	64.8	66.5	64.8	65.9	66.5
85°	33.5	35.8	34.7	35.4	37.1
87.5°	11.1	12.4	13.0	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)