

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: P738209

Luminaire Tested: **22PT-45-PR1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506224)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PR1-L840
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

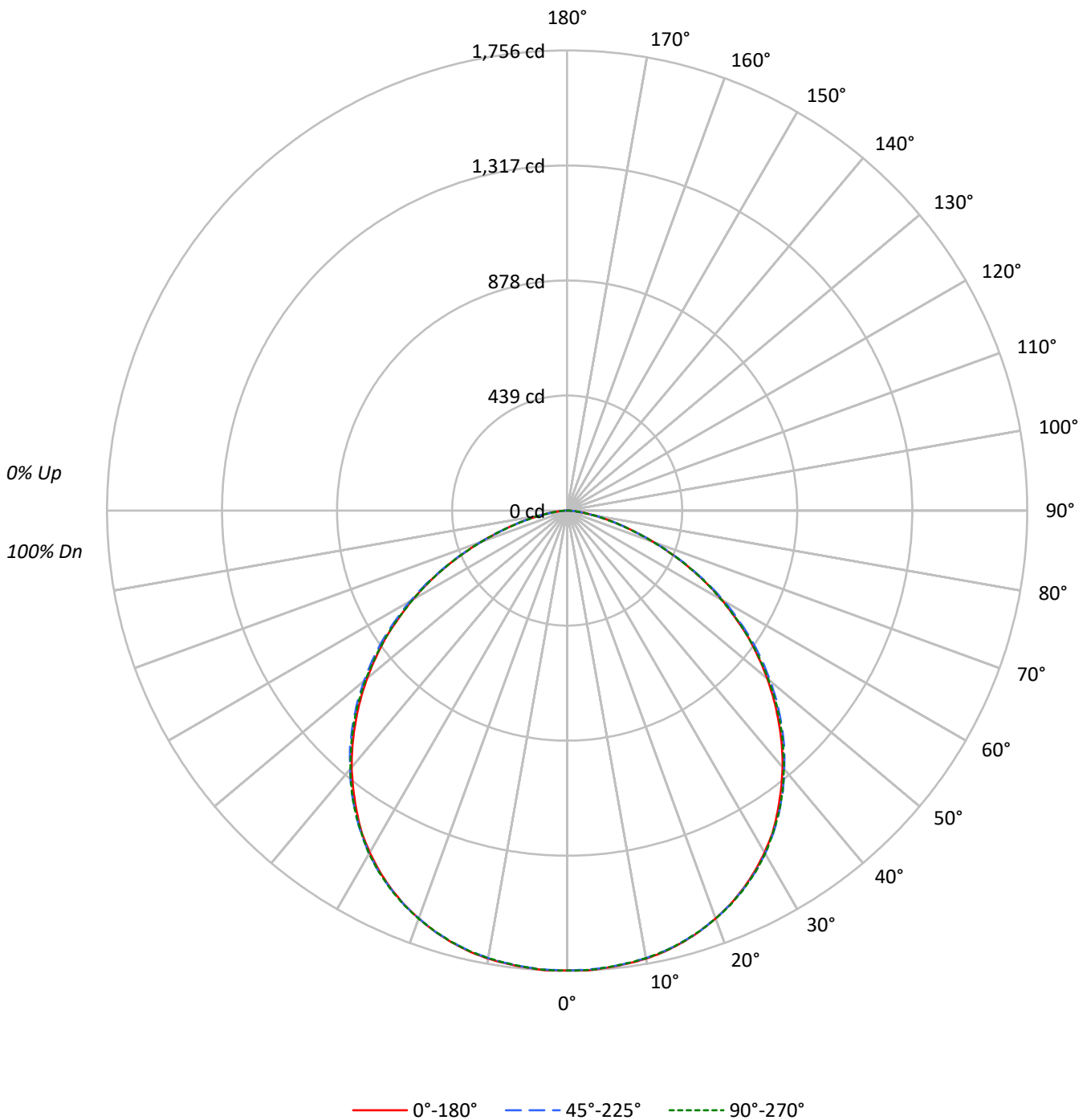
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4690.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37
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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	85
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	71	58	50	43	70	58	49	43	56	48	43		54	48	43		52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	36
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	31		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°	5143	5143	5143
5°	5150	5147	5147
10°	5167	5159	5159
15°	5173	5168	5169
20°	5165	5164	5168
25°	5144	5149	5153
30°	5097	5113	5115
35°	5011	5039	5036
40°	4894	4928	4922
45°	4733	4794	4770
50°	4542	4611	4573
55°	4311	4379	4317
60°	3996	4052	3983
65°	3566	3602	3561
70°	2999	2999	2980
75°	2350	2350	2324
80°	1721	1701	1692
85°	1123	1123	1146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.6
10°-20°	481.0	10.3
20°-30°	733.7	15.6
30°-40°	879.3	18.7
40°-50°	888.0	18.9
50°-60°	759.8	16.2
60°-70°	512.3	10.9
70°-80°	226.0	4.8
80°-90°	43.4	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°	1381.2	29.4
0°-40°	2260.4	48.2
0°-60°	3908.2	83.3
0°-90°	4690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1751	1749	1750	1749	1750	167
15°	1705	1705	1704	1703	1704	481
25°	1591	1593	1593	1593	1594	733
35°	1401	1409	1409	1407	1408	876
45°	1142	1151	1157	1155	1151	880
55°	844	852	857	856	845	752
65°	514	518	520	518	514	508
75°	208	208	208	208	205	226
85°	33	33	33	34	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1755.2	1755.2	1755.2	1755.2	1755.2
2.5°	1756.3	1754.0	1753.3	1752.8	1755.2
5°	1751.0	1748.7	1749.9	1748.7	1749.9
7.5°	1744.6	1742.3	1742.9	1741.6	1742.9
10°	1736.5	1734.0	1734.0	1732.8	1734.0
12.5°	1723.4	1721.8	1721.1	1719.9	1721.8
15°	1705.2	1704.7	1703.6	1702.9	1704.1
17.5°	1683.1	1681.9	1683.1	1681.3	1682.4
20°	1656.6	1657.3	1656.1	1656.6	1657.3
22.5°	1626.7	1626.7	1627.4	1627.4	1628.5
25°	1591.0	1592.7	1592.7	1592.7	1594.0
27.5°	1551.2	1553.5	1555.1	1554.0	1555.1
30°	1506.5	1510.7	1511.2	1510.7	1511.8
32.5°	1458.4	1461.4	1463.0	1461.9	1460.7
35°	1400.9	1409.2	1408.7	1407.3	1408.0
37.5°	1340.5	1348.8	1351.6	1349.3	1350.0
40°	1279.5	1286.7	1288.3	1289.0	1286.7
42.5°	1212.1	1220.4	1226.8	1223.8	1220.4
45°	1142.3	1151.1	1157.0	1155.2	1151.1
47.5°	1070.3	1078.4	1086.6	1083.6	1079.7
50°	996.4	1004.5	1011.6	1010.4	1003.3
52.5°	920.6	930.1	936.5	934.2	924.8
55°	843.9	851.5	857.3	856.2	845.1
57.5°	760.6	770.5	773.5	771.7	763.6
60°	681.9	688.5	691.4	689.0	679.6
62.5°	598.1	603.4	605.7	605.2	598.8
65°	514.3	518.4	519.6	518.4	513.6
67.5°	428.2	434.0	434.6	434.6	429.8
70°	350.1	351.8	350.1	354.8	347.8
72.5°	274.4	275.6	274.4	274.4	271.4
75°	207.6	208.1	207.6	208.1	205.3
77.5°	150.1	151.3	148.9	150.8	147.8
80°	102.0	102.0	100.8	101.5	100.3
82.5°	63.3	64.5	62.8	62.8	62.2
85°	33.4	33.4	33.4	34.1	34.1
87.5°	11.7	11.7	12.2	12.2	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)