

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: P738541

Luminaire Tested: **24PT-45-PL1-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-45-PL1-L940
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

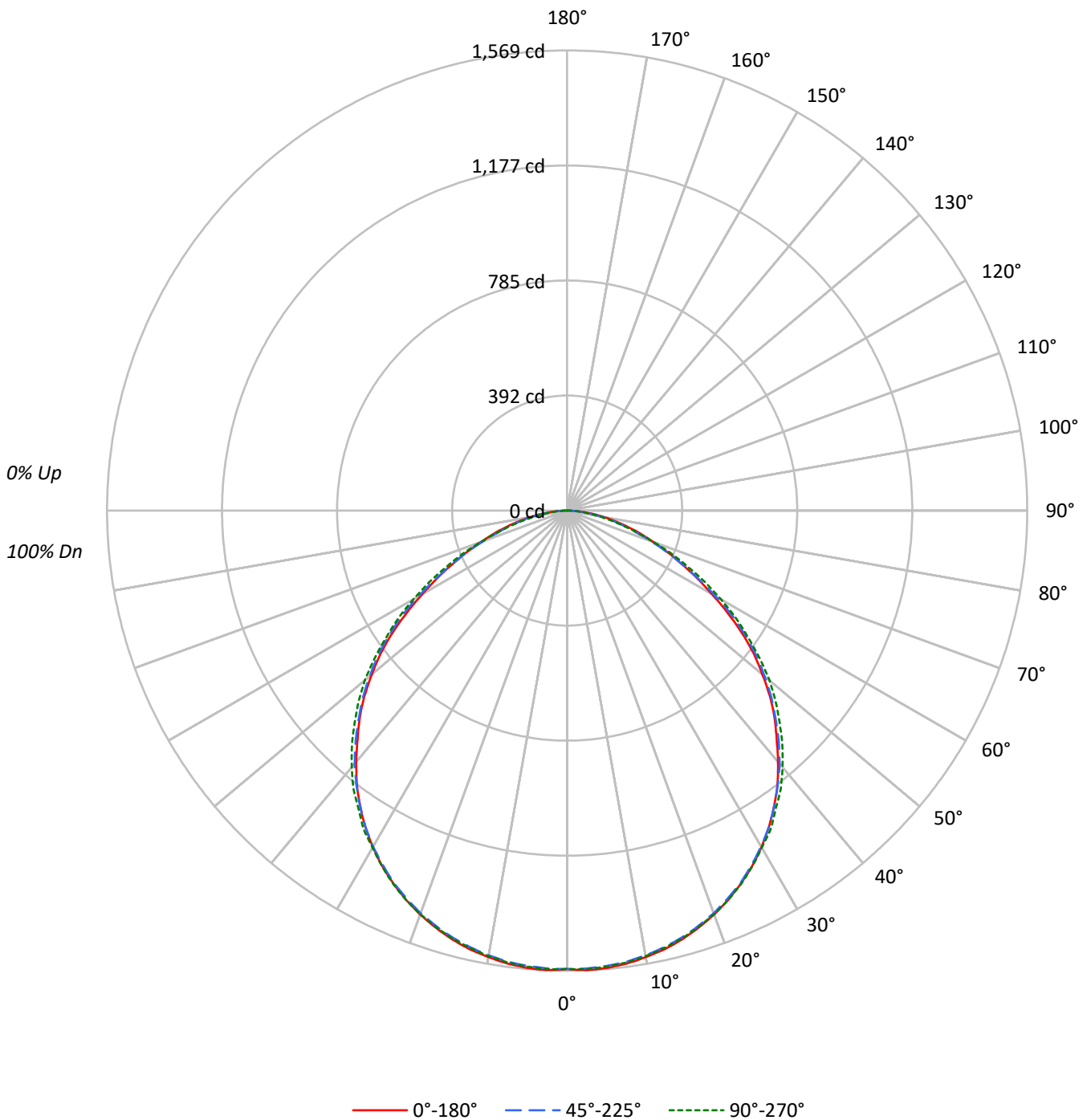
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4138.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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

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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	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
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	30	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2242	2242	2242
5°	2253	2243	2246
10°	2251	2242	2246
15°	2247	2238	2243
20°	2236	2229	2235
25°	2220	2215	2222
30°	2193	2190	2198
35°	2154	2154	2171
40°	2094	2110	2139
45°	2029	2038	2078
50°	1939	1961	2008
55°	1820	1853	1882
60°	1634	1674	1736
65°	1462	1465	1544
70°	1304	1268	1313
75°	1177	1108	1088
80°	1046	976	861
85°	857	813	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.6
10°-20°	425.8	10.3
20°-30°	645.1	15.6
30°-40°	770.9	18.6
40°-50°	777.7	18.8
50°-60°	659.8	15.9
60°-70°	436.5	10.5
70°-80°	216.6	5.2
80°-90°	57.3	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°	1219.2	29.5
0°-40°	1990.1	48.1
0°-60°	3427.5	82.8
0°-90°	4138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1565	1560	1558	1558	1561	149
15°	1514	1509	1508	1508	1511	427
25°	1403	1400	1400	1399	1404	646
35°	1230	1228	1231	1238	1240	769
45°	1001	999	1005	1019	1025	770
55°	728	730	741	748	753	647
65°	431	430	432	445	455	430
75°	212	207	200	194	196	227
85°	52	52	49	45	41	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1568.7	1563.8	1562.4	1561.5	1565.1
5°	1565.1	1559.7	1558.4	1557.5	1560.6
7.5°	1557.9	1552.1	1551.2	1550.3	1554.3
10°	1546.2	1540.9	1540.0	1539.1	1542.6
12.5°	1532.3	1526.9	1525.1	1525.6	1527.8
15°	1513.9	1508.9	1507.6	1507.6	1510.7
17.5°	1491.0	1486.5	1485.6	1485.1	1489.2
20°	1465.4	1460.9	1460.9	1462.2	1464.5
22.5°	1436.2	1433.0	1431.2	1432.1	1436.6
25°	1402.9	1399.8	1399.8	1399.3	1404.2
27.5°	1366.1	1362.0	1362.0	1365.6	1367.4
30°	1324.7	1321.1	1322.9	1325.6	1327.4
32.5°	1280.2	1278.0	1279.3	1283.4	1290.6
35°	1230.3	1228.5	1230.8	1237.5	1240.2
37.5°	1178.2	1176.9	1180.0	1189.0	1196.6
40°	1118.9	1118.9	1127.4	1135.5	1142.7
42.5°	1057.3	1061.4	1067.7	1080.3	1086.5
45°	1000.7	999.4	1005.2	1018.7	1025.0
47.5°	937.8	936.5	945.0	954.4	964.8
50°	869.1	868.6	878.9	887.0	900.1
52.5°	802.1	806.1	812.9	820.1	827.7
55°	728.0	729.8	741.4	748.2	752.7
57.5°	648.0	653.8	668.2	678.1	682.1
60°	569.8	573.4	583.7	601.2	605.3
62.5°	498.8	500.1	506.4	526.2	531.6
65°	430.9	430.0	431.8	445.3	455.2
67.5°	369.4	365.8	365.8	373.0	385.1
70°	311.0	305.6	302.4	304.7	313.2
72.5°	262.0	254.8	246.7	245.3	250.7
75°	212.5	206.7	200.0	193.7	196.4
77.5°	169.4	164.5	158.2	151.0	147.4
80°	126.7	124.9	118.2	111.4	104.3
82.5°	88.5	87.2	82.7	77.3	72.8
85°	52.1	52.1	49.4	45.4	40.9
87.5°	23.4	22.5	23.4	19.8	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)