

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: P738539

Luminaire Tested: **24PT-45-PL1-L930**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738539
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-L930
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

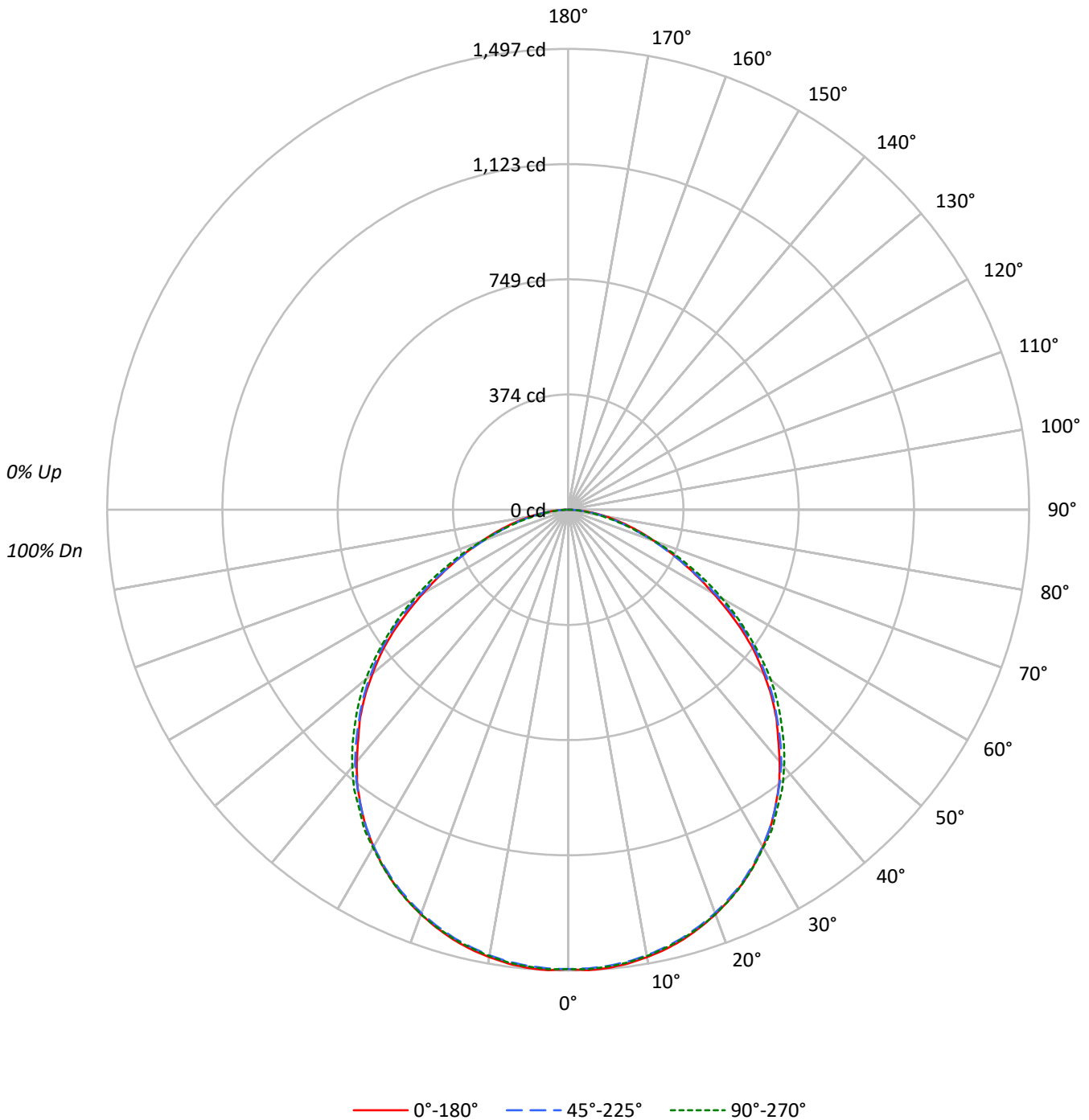
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3950.0 lumens
Efficiency: N/A
Efficacy: 106.2 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°	2140	2140	2140
5°	2150	2141	2144
10°	2149	2140	2144
15°	2145	2136	2141
20°	2134	2128	2133
25°	2119	2114	2121
30°	2094	2091	2098
35°	2056	2057	2072
40°	1999	2014	2042
45°	1937	1946	1984
50°	1851	1872	1917
55°	1737	1769	1796
60°	1560	1598	1657
65°	1396	1399	1474
70°	1244	1210	1254
75°	1124	1058	1038
80°	999	931	822
85°	819	777	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.6
10°-20°	406.4	10.3
20°-30°	615.8	15.6
30°-40°	735.9	18.6
40°-50°	742.3	18.8
50°-60°	629.8	15.9
60°-70°	416.7	10.5
70°-80°	206.8	5.2
80°-90°	54.7	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°	1163.8	29.5
0°-40°	1899.7	48.1
0°-60°	3271.8	82.8
0°-90°	3950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1494	1489	1488	1487	1490	142
15°	1445	1440	1439	1439	1442	408
25°	1339	1336	1336	1336	1340	617
35°	1174	1173	1175	1181	1184	734
45°	955	954	960	972	978	735
55°	695	697	708	714	718	618
65°	411	410	412	425	434	410
75°	203	197	191	185	187	217
85°	50	50	47	43	39	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.3	1492.3	1492.3	1492.3	1492.3
2.5°	1497.4	1492.7	1491.4	1490.6	1494.0
5°	1494.0	1488.9	1487.6	1486.7	1489.7
7.5°	1487.1	1481.6	1480.7	1479.9	1483.7
10°	1476.0	1470.8	1470.0	1469.1	1472.6
12.5°	1462.7	1457.5	1455.8	1456.3	1458.4
15°	1445.1	1440.4	1439.1	1439.1	1442.1
17.5°	1423.2	1418.9	1418.1	1417.7	1421.5
20°	1398.8	1394.5	1394.5	1395.8	1397.9
22.5°	1370.9	1367.9	1366.2	1367.0	1371.3
25°	1339.2	1336.2	1336.2	1335.7	1340.4
27.5°	1304.0	1300.1	1300.1	1303.6	1305.3
30°	1264.5	1261.1	1262.8	1265.4	1267.1
32.5°	1222.1	1219.9	1221.2	1225.1	1231.9
35°	1174.4	1172.7	1174.9	1181.3	1183.9
37.5°	1124.7	1123.4	1126.4	1135.0	1142.3
40°	1068.1	1068.1	1076.2	1083.9	1090.8
42.5°	1009.3	1013.2	1019.2	1031.2	1037.2
45°	955.3	954.0	959.5	972.4	978.4
47.5°	895.2	893.9	902.1	911.1	920.9
50°	829.6	829.1	839.0	846.7	859.2
52.5°	765.7	769.5	776.0	782.8	790.1
55°	694.9	696.6	707.8	714.2	718.5
57.5°	618.5	624.1	637.8	647.3	651.1
60°	543.9	547.3	557.2	573.9	577.8
62.5°	476.1	477.4	483.4	502.3	507.4
65°	411.4	410.5	412.2	425.1	434.5
67.5°	352.6	349.2	349.2	356.0	367.6
70°	296.8	291.7	288.7	290.8	299.0
72.5°	250.1	243.2	235.5	234.2	239.4
75°	202.9	197.3	190.9	184.9	187.4
77.5°	161.7	157.0	151.0	144.1	140.7
80°	121.0	119.2	112.8	106.4	99.5
82.5°	84.5	83.2	78.9	73.8	69.5
85°	49.8	49.8	47.2	43.3	39.0
87.5°	22.3	21.4	22.3	18.9	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)