

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: P738555

Luminaire Tested: **24PT-45-PW1-L930**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-45-PW1-L930
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

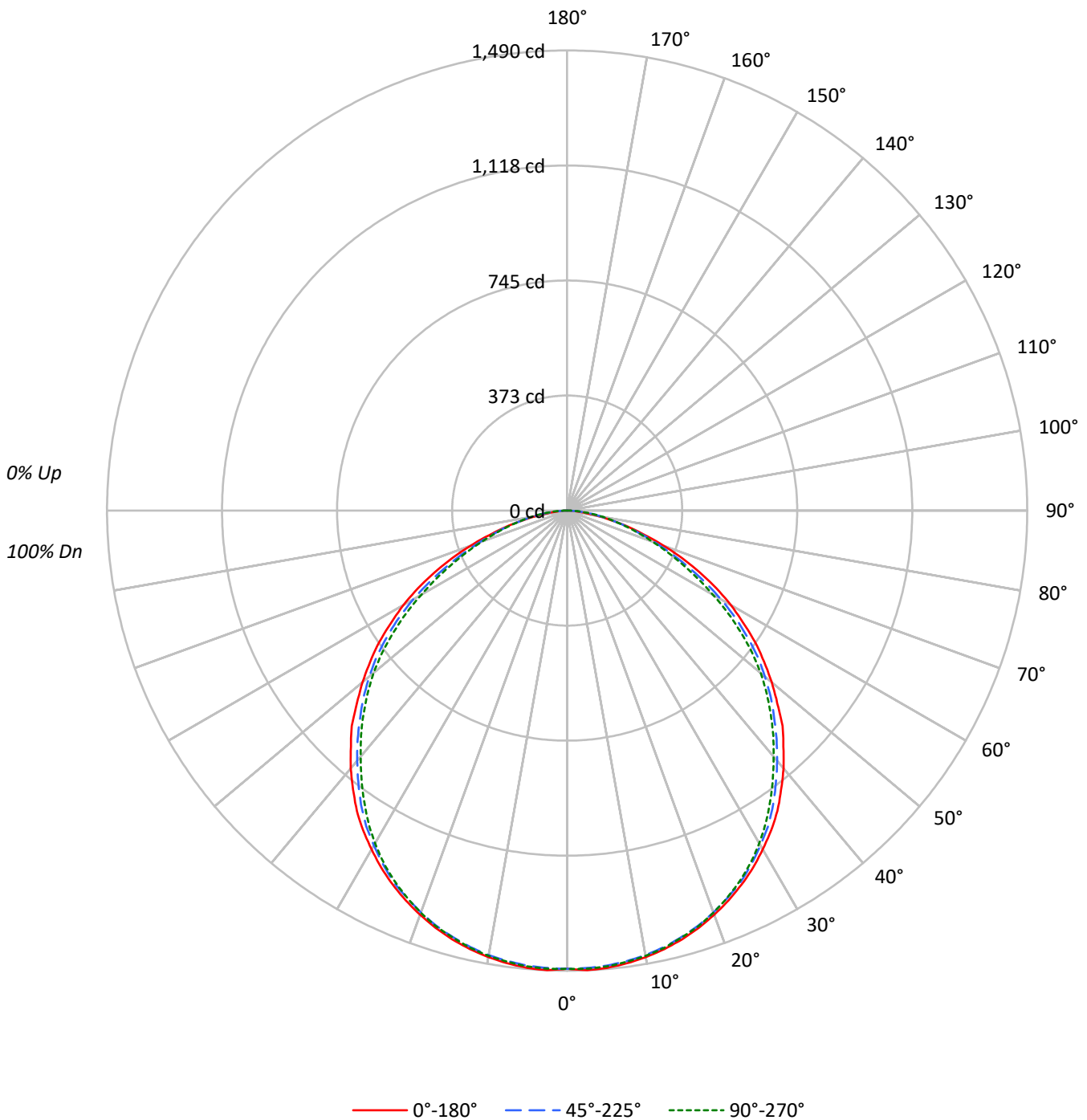
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3956.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.24 / 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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2127	2127	2127
5°	2139	2129	2133
10°	2138	2128	2131
15°	2134	2122	2125
20°	2125	2113	2114
25°	2114	2102	2093
30°	2097	2073	2060
35°	2078	2036	2008
40°	2040	1980	1947
45°	2000	1922	1891
50°	1929	1864	1825
55°	1858	1779	1715
60°	1756	1648	1563
65°	1608	1468	1393
70°	1394	1273	1226
75°	1141	1098	1084
80°	832	939	967
85°	558	783	832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.6
10°-20°	404.0	10.2
20°-30°	611.4	15.5
30°-40°	727.5	18.4
40°-50°	734.8	18.6
50°-60°	635.8	16.1
60°-70°	434.4	11.0
70°-80°	214.0	5.4
80°-90°	53.5	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°	1156.0	29.2
0°-40°	1883.5	47.6
0°-60°	3254.1	82.3
0°-90°	3956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1486	1481	1479	1478	1482	141
15°	1437	1433	1430	1429	1431	406
25°	1336	1331	1328	1323	1323	616
35°	1187	1177	1163	1150	1147	741
45°	986	969	948	937	932	757
55°	743	733	712	697	686	662
65°	474	456	433	419	410	468
75°	206	200	198	197	196	220
85°	34	42	48	49	51	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.7	1483.7	1483.7	1483.7	1483.7
2.5°	1489.7	1484.1	1482.4	1481.1	1484.9
5°	1486.2	1480.7	1478.9	1477.6	1481.9
7.5°	1478.9	1473.4	1471.6	1470.4	1473.8
10°	1468.2	1463.1	1461.3	1460.1	1463.9
12.5°	1454.5	1449.8	1447.6	1445.9	1450.2
15°	1437.3	1432.6	1429.6	1428.8	1431.3
17.5°	1416.7	1412.0	1409.9	1408.6	1411.6
20°	1392.7	1387.6	1384.6	1382.9	1385.4
22.5°	1366.1	1361.0	1357.1	1355.4	1356.3
25°	1336.1	1331.0	1328.4	1323.2	1323.2
27.5°	1303.9	1297.9	1291.5	1285.9	1286.3
30°	1266.6	1259.8	1252.0	1244.7	1244.3
32.5°	1228.9	1220.3	1210.9	1201.0	1198.0
35°	1187.3	1177.4	1163.2	1150.4	1146.9
37.5°	1138.4	1129.4	1110.5	1099.8	1094.2
40°	1089.9	1077.0	1057.7	1045.3	1040.1
42.5°	1036.7	1024.3	1003.7	992.1	987.8
45°	986.1	969.4	947.9	937.2	932.5
47.5°	923.0	909.3	894.3	881.9	875.9
50°	864.7	853.6	835.5	821.8	818.0
52.5°	803.8	794.4	777.2	759.2	754.9
55°	743.3	733.0	711.6	696.6	685.9
57.5°	675.1	666.1	646.0	626.7	617.2
60°	612.5	597.1	574.8	553.7	545.2
62.5°	544.3	529.3	503.6	482.1	477.4
65°	474.0	455.9	432.8	418.6	410.5
67.5°	402.8	385.2	365.9	356.9	351.7
70°	332.4	318.3	303.7	297.2	292.5
72.5°	264.6	256.5	248.3	245.8	241.5
75°	205.9	199.9	198.2	196.9	195.6
77.5°	148.4	151.4	153.1	154.8	153.1
80°	100.8	107.2	113.7	117.1	117.1
82.5°	62.2	73.3	78.9	82.4	81.9
85°	33.9	42.0	47.6	49.3	50.6
87.5°	13.7	17.2	19.3	21.0	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)