

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: P738540

Luminaire Tested: **24PT-45-PL1-L935**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738540
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-L935
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

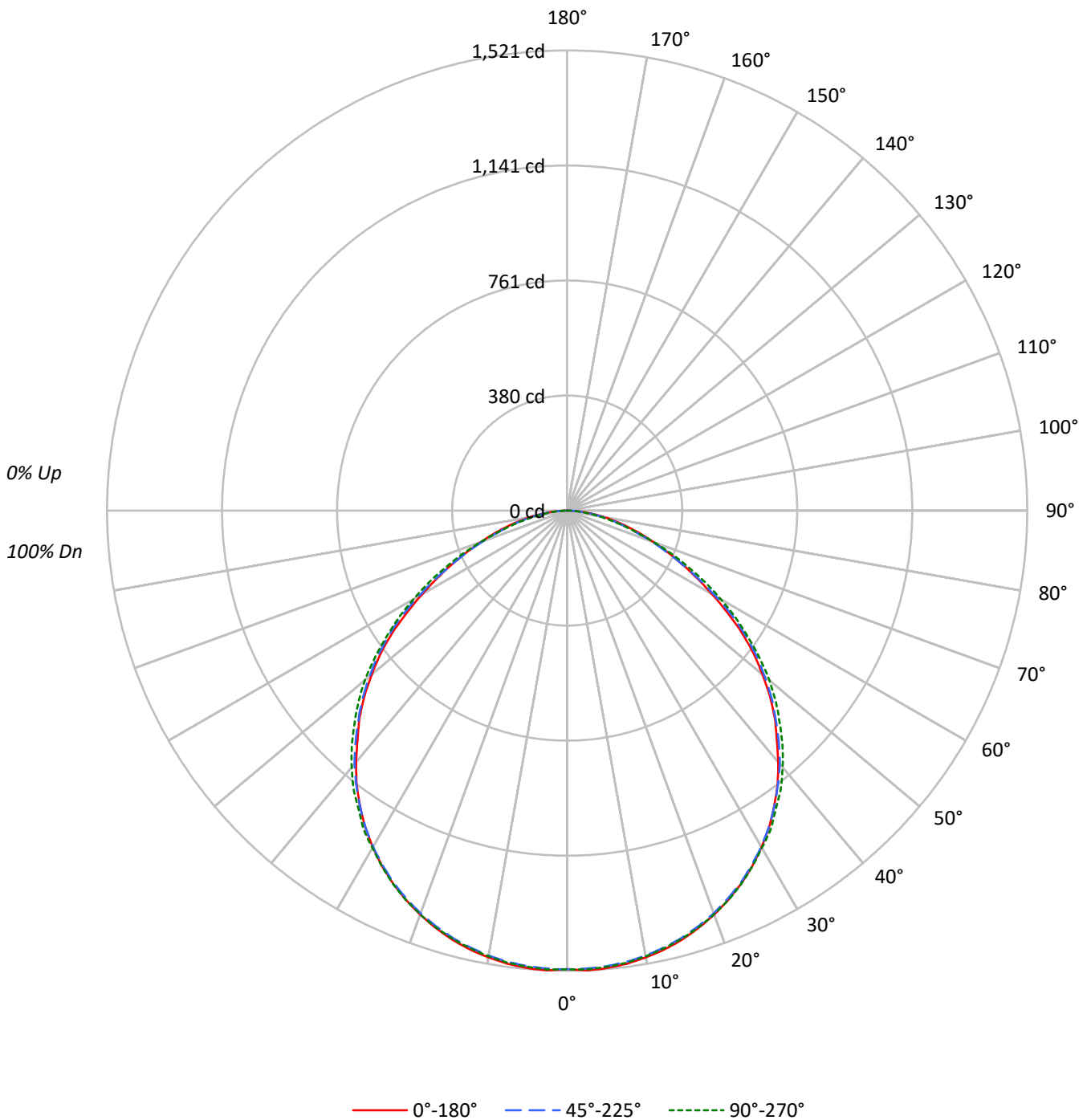
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4013.0 lumens
Efficiency: N/A
Efficacy: 107.9 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

TEST NUMBER: P738540
CATALOG NUMBER: 24PT-45-PL1-L935

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°	2174	2174	2174
5°	2185	2175	2178
10°	2183	2174	2178
15°	2179	2170	2175
20°	2168	2162	2167
25°	2152	2148	2154
30°	2127	2124	2131
35°	2089	2089	2105
40°	2031	2047	2074
45°	1968	1977	2016
50°	1880	1901	1947
55°	1765	1797	1825
60°	1585	1623	1683
65°	1418	1421	1498
70°	1264	1230	1273
75°	1142	1074	1055
80°	1015	946	835
85°	832	788	653



TEST NUMBER: P738540

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	3.6
10°-20°	412.9	10.3
20°-30°	625.6	15.6
30°-40°	747.6	18.6
40°-50°	754.2	18.8
50°-60°	639.8	15.9
60°-70°	423.3	10.5
70°-80°	210.1	5.2
80°-90°	55.6	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°	1182.3	29.5
0°-40°	1930.0	48.1
0°-60°	3324.0	82.8
0°-90°	4013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1518	1513	1511	1510	1514	144
15°	1468	1463	1462	1462	1465	414
25°	1360	1358	1358	1357	1362	627
35°	1193	1191	1194	1200	1203	745
45°	970	969	975	988	994	747
55°	706	708	719	726	730	628
65°	418	417	419	432	441	417
75°	206	200	194	188	190	221
85°	51	51	48	44	40	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1516.1	1516.1	1516.1	1516.1	1516.1
2.5°	1521.3	1516.5	1515.2	1514.4	1517.8
5°	1517.8	1512.6	1511.3	1510.4	1513.5
7.5°	1510.9	1505.2	1504.3	1503.5	1507.4
10°	1499.5	1494.3	1493.4	1492.6	1496.0
12.5°	1486.0	1480.8	1479.1	1479.5	1481.7
15°	1468.2	1463.4	1462.1	1462.1	1465.1
17.5°	1445.9	1441.6	1440.7	1440.3	1444.2
20°	1421.1	1416.7	1416.7	1418.0	1420.2
22.5°	1392.8	1389.7	1388.0	1388.8	1393.2
25°	1360.5	1357.5	1357.5	1357.0	1361.8
27.5°	1324.8	1320.9	1320.9	1324.3	1326.1
30°	1284.7	1281.2	1282.9	1285.6	1287.3
32.5°	1241.6	1239.4	1240.7	1244.6	1251.6
35°	1193.2	1191.4	1193.6	1200.2	1202.8
37.5°	1142.6	1141.3	1144.4	1153.1	1160.5
40°	1085.1	1085.1	1093.4	1101.2	1108.2
42.5°	1025.4	1029.3	1035.4	1047.6	1053.7
45°	970.5	969.2	974.9	987.9	994.0
47.5°	909.5	908.2	916.5	925.6	935.6
50°	842.8	842.4	852.4	860.2	872.9
52.5°	777.9	781.8	788.3	795.3	802.7
55°	706.0	707.7	719.0	725.6	729.9
57.5°	628.4	634.1	648.0	657.6	661.5
60°	552.6	556.1	566.1	583.1	587.0
62.5°	483.7	485.0	491.1	510.3	515.5
65°	417.9	417.0	418.8	431.9	441.4
67.5°	358.2	354.7	354.7	361.7	373.5
70°	301.6	296.3	293.3	295.5	303.7
72.5°	254.1	247.1	239.2	237.9	243.2
75°	206.1	200.5	193.9	187.8	190.4
77.5°	164.3	159.5	153.4	146.4	142.9
80°	122.9	121.1	114.6	108.1	101.1
82.5°	85.8	84.5	80.2	75.0	70.6
85°	50.6	50.6	47.9	44.0	39.7
87.5°	22.7	21.8	22.7	19.2	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)