

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: P738535

Luminaire Tested: **24PT-45-PL1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738535
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-L830
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

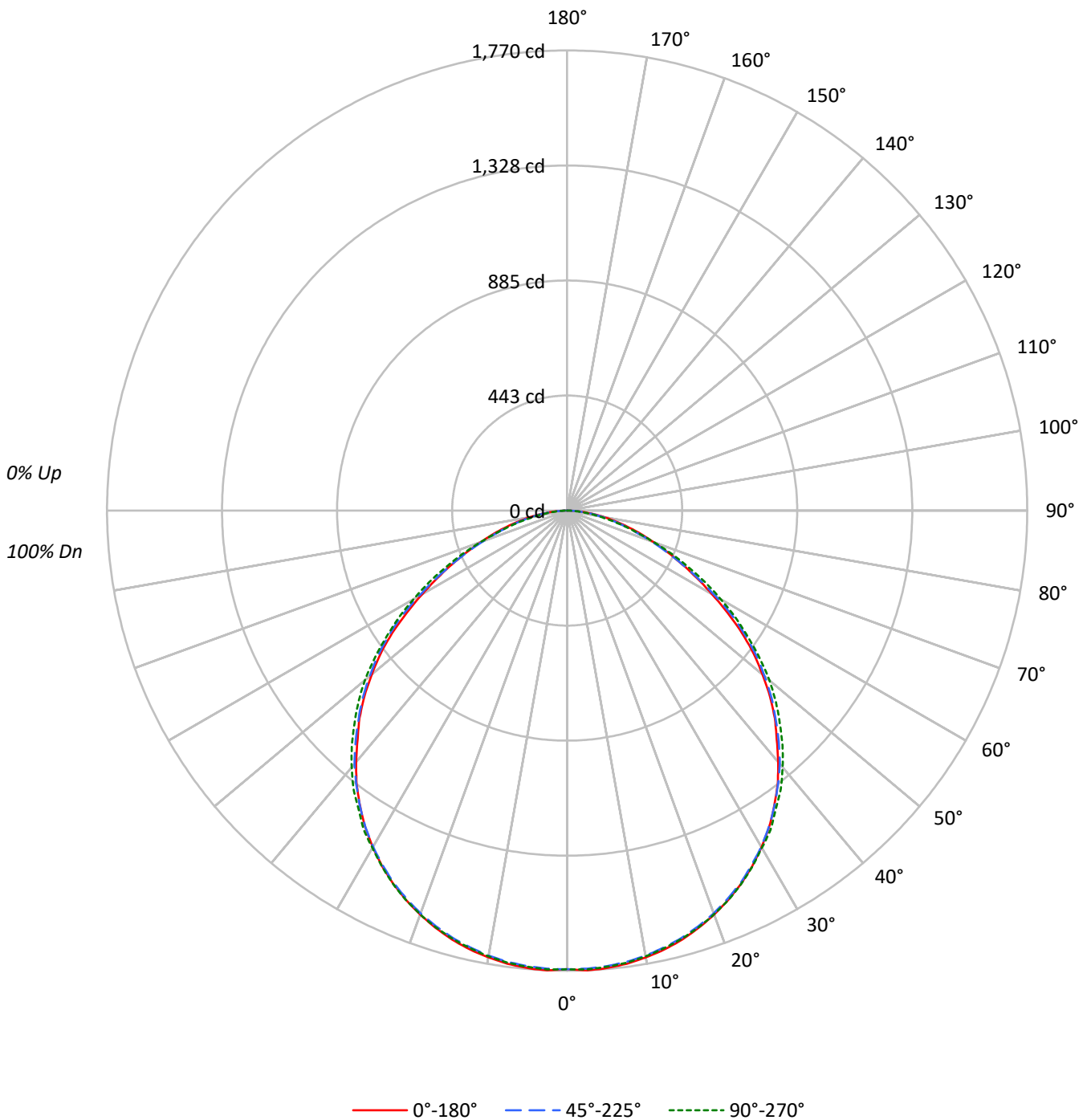
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4670.0 lumens
Efficiency: N/A
Efficacy: 125.5 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 (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

TEST NUMBER: P738535
CATALOG NUMBER: 24PT-45-PL1-L830

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°	2530	2530	2530
5°	2542	2531	2535
10°	2541	2530	2535
15°	2536	2526	2531
20°	2524	2516	2522
25°	2505	2499	2507
30°	2475	2472	2480
35°	2430	2431	2450
40°	2364	2382	2414
45°	2290	2301	2346
50°	2188	2213	2266
55°	2054	2092	2123
60°	1844	1889	1959
65°	1650	1654	1743
70°	1471	1431	1482
75°	1329	1250	1228
80°	1181	1102	972
85°	967	918	758



TEST NUMBER: P738535

CATALOG NUMBER: 24PT-45-PL1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	3.6
10°-20°	480.5	10.3
20°-30°	728.0	15.6
30°-40°	870.0	18.6
40°-50°	877.6	18.8
50°-60°	744.6	15.9
60°-70°	492.7	10.5
70°-80°	244.5	5.2
80°-90°	64.7	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°	1375.9	29.5
0°-40°	2245.9	48.1
0°-60°	3868.2	82.8
0°-90°	4670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1766	1760	1759	1758	1761	168
15°	1708	1703	1701	1701	1705	482
25°	1583	1580	1580	1579	1585	729
35°	1388	1386	1389	1397	1400	868
45°	1129	1128	1134	1150	1157	869
55°	822	824	837	844	849	731
65°	486	485	487	503	514	485
75°	240	233	226	219	222	257
85°	59	59	56	51	46	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.3	1764.3	1764.3	1764.3	1764.3
2.5°	1770.4	1764.8	1763.3	1762.3	1766.3
5°	1766.3	1760.2	1758.7	1757.7	1761.3
7.5°	1758.2	1751.6	1750.6	1749.6	1754.2
10°	1745.0	1739.0	1737.9	1736.9	1741.0
12.5°	1729.3	1723.2	1721.2	1721.7	1724.2
15°	1708.5	1702.9	1701.4	1701.4	1705.0
17.5°	1682.7	1677.6	1676.6	1676.1	1680.6
20°	1653.8	1648.7	1648.7	1650.2	1652.7
22.5°	1620.8	1617.2	1615.2	1616.2	1621.3
25°	1583.3	1579.7	1579.7	1579.2	1584.8
27.5°	1541.7	1537.1	1537.1	1541.2	1543.2
30°	1495.0	1491.0	1493.0	1496.0	1498.1
32.5°	1444.8	1442.3	1443.8	1448.4	1456.5
35°	1388.5	1386.5	1389.0	1396.6	1399.7
37.5°	1329.7	1328.2	1331.7	1341.9	1350.5
40°	1262.8	1262.8	1272.4	1281.5	1289.6
42.5°	1193.3	1197.8	1204.9	1219.1	1226.2
45°	1129.4	1127.9	1134.5	1149.7	1156.8
47.5°	1058.4	1056.9	1066.5	1077.1	1088.8
50°	980.8	980.3	991.9	1001.1	1015.8
52.5°	905.2	909.8	917.4	925.5	934.1
55°	821.6	823.6	836.8	844.4	849.4
57.5°	731.3	737.9	754.1	765.3	769.8
60°	643.0	647.1	658.8	678.5	683.1
62.5°	562.9	564.4	571.5	593.8	599.9
65°	486.3	485.3	487.4	502.6	513.7
67.5°	416.9	412.8	412.8	420.9	434.6
70°	350.9	344.8	341.3	343.8	353.5
72.5°	295.7	287.5	278.4	276.9	283.0
75°	239.9	233.3	225.7	218.6	221.6
77.5°	191.2	185.6	178.5	170.4	166.3
80°	143.0	141.0	133.4	125.8	117.7
82.5°	99.9	98.4	93.3	87.2	82.2
85°	58.8	58.8	55.8	51.2	46.1
87.5°	26.4	25.4	26.4	22.3	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)