

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: P738551

Luminaire Tested: **24PT-45-PW1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738551
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-L830
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

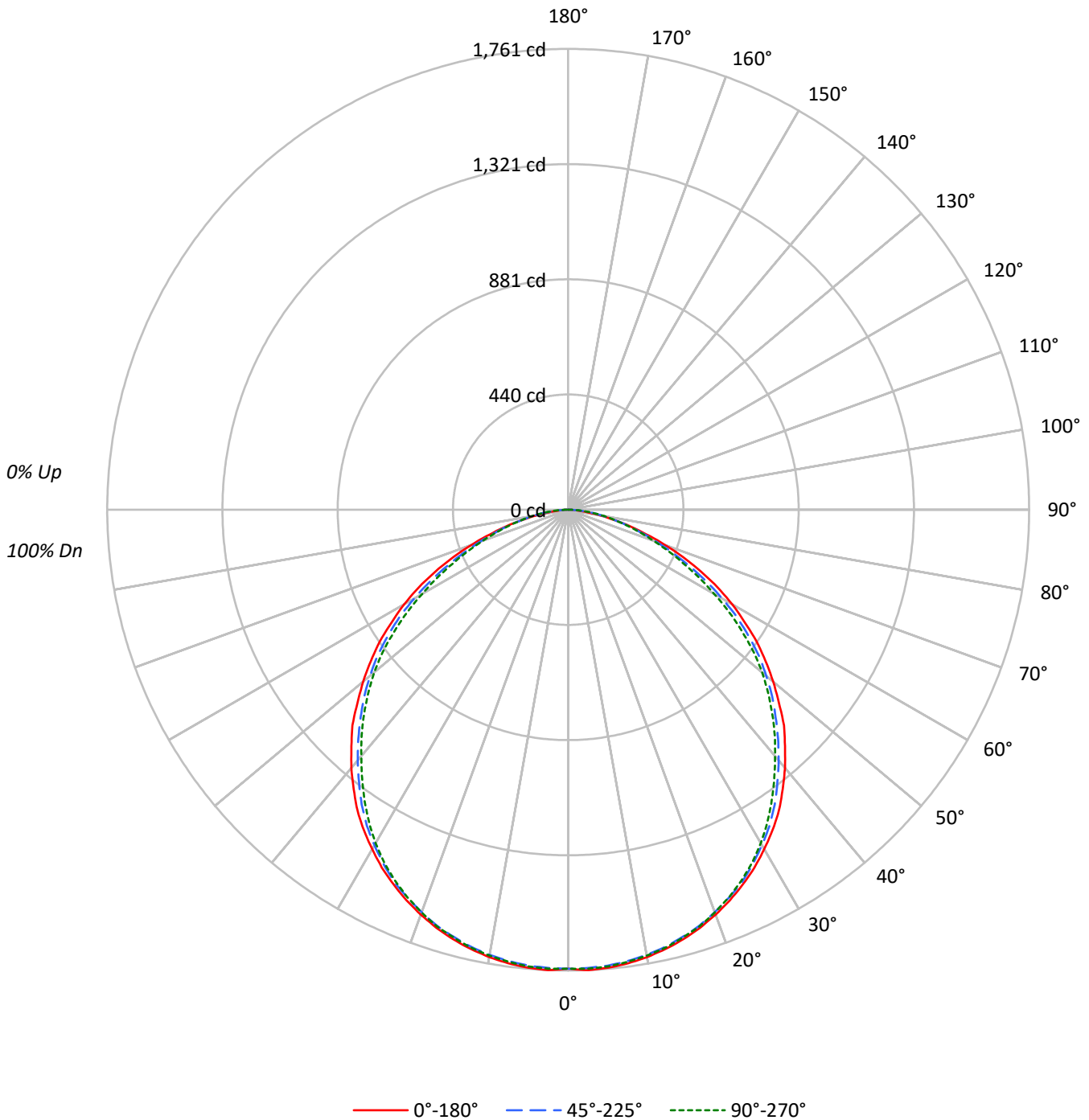
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4677.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

TEST NUMBER: P738551
CATALOG NUMBER: 24PT-45-PW1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P738551

CATALOG NUMBER: 24PT-45-PW1-L830

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°	2515	2515	2515
5°	2529	2517	2522
10°	2527	2515	2520
15°	2523	2509	2512
20°	2513	2498	2499
25°	2499	2485	2475
30°	2479	2451	2436
35°	2457	2407	2374
40°	2412	2341	2302
45°	2364	2273	2235
50°	2280	2203	2157
55°	2197	2103	2027
60°	2077	1949	1848
65°	1901	1736	1647
70°	1648	1505	1450
75°	1348	1298	1281
80°	984	1110	1143
85°	660	926	984



TEST NUMBER: P738551

CATALOG NUMBER: 24PT-45-PW1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	3.6
10°-20°	477.6	10.2
20°-30°	722.8	15.5
30°-40°	860.0	18.4
40°-50°	868.7	18.6
50°-60°	751.7	16.1
60°-70°	513.5	11.0
70°-80°	253.1	5.4
80°-90°	63.2	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°	1366.7	29.2
0°-40°	2226.8	47.6
0°-60°	3847.2	82.3
0°-90°	4677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1757	1750	1748	1747	1752	167
15°	1699	1694	1690	1689	1692	480
25°	1580	1574	1570	1564	1564	728
35°	1404	1392	1375	1360	1356	876
45°	1166	1146	1121	1108	1102	895
55°	879	867	841	824	811	783
65°	560	539	512	495	485	553
75°	243	236	234	233	231	260
85°	40	50	56	58	60	52
90°	0	0	0	0	0	



TEST NUMBER: P738551

CATALOG NUMBER: 24PT-45-PW1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1754.1	1754.1	1754.1	1754.1	1754.1
2.5°	1761.2	1754.6	1752.5	1751.0	1755.6
5°	1757.1	1750.5	1748.5	1747.0	1752.0
7.5°	1748.5	1741.9	1739.9	1738.3	1742.4
10°	1735.8	1729.7	1727.7	1726.2	1730.7
12.5°	1719.6	1714.0	1711.5	1709.4	1714.5
15°	1699.3	1693.7	1690.2	1689.1	1692.2
17.5°	1674.9	1669.4	1666.8	1665.3	1668.9
20°	1646.6	1640.5	1636.9	1634.9	1637.9
22.5°	1615.1	1609.0	1604.5	1602.4	1603.4
25°	1579.6	1573.5	1570.5	1564.4	1564.4
27.5°	1541.6	1534.5	1526.9	1520.3	1520.8
30°	1497.5	1489.4	1480.2	1471.6	1471.1
32.5°	1452.8	1442.7	1431.5	1419.9	1416.3
35°	1403.7	1392.0	1375.3	1360.0	1356.0
37.5°	1345.8	1335.2	1312.9	1300.2	1293.6
40°	1288.5	1273.3	1250.5	1235.8	1229.7
42.5°	1225.7	1211.0	1186.6	1172.9	1167.8
45°	1165.8	1146.0	1120.7	1108.0	1102.4
47.5°	1091.3	1075.1	1057.3	1042.6	1035.5
50°	1022.3	1009.1	987.8	971.6	967.0
52.5°	950.3	939.1	918.9	897.6	892.5
55°	878.8	866.6	841.3	823.5	810.9
57.5°	798.2	787.5	763.7	740.9	729.7
60°	724.1	705.9	679.5	654.7	644.5
62.5°	643.5	625.8	595.3	570.0	564.4
65°	560.3	539.0	511.7	494.9	485.3
67.5°	476.2	455.4	432.6	421.9	415.8
70°	393.0	376.3	359.0	351.4	345.8
72.5°	312.9	303.2	293.6	290.6	285.5
75°	243.4	236.3	234.3	232.8	231.2
77.5°	175.5	179.0	181.0	183.1	181.0
80°	119.2	126.8	134.4	138.4	138.4
82.5°	73.5	86.7	93.3	97.4	96.9
85°	40.1	49.7	56.3	58.3	59.8
87.5°	16.2	20.3	22.8	24.8	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)