

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: P738543

Luminaire Tested: **24PT-45-PR1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-45-PR1-L830
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source: -
Ballast/Driver: -

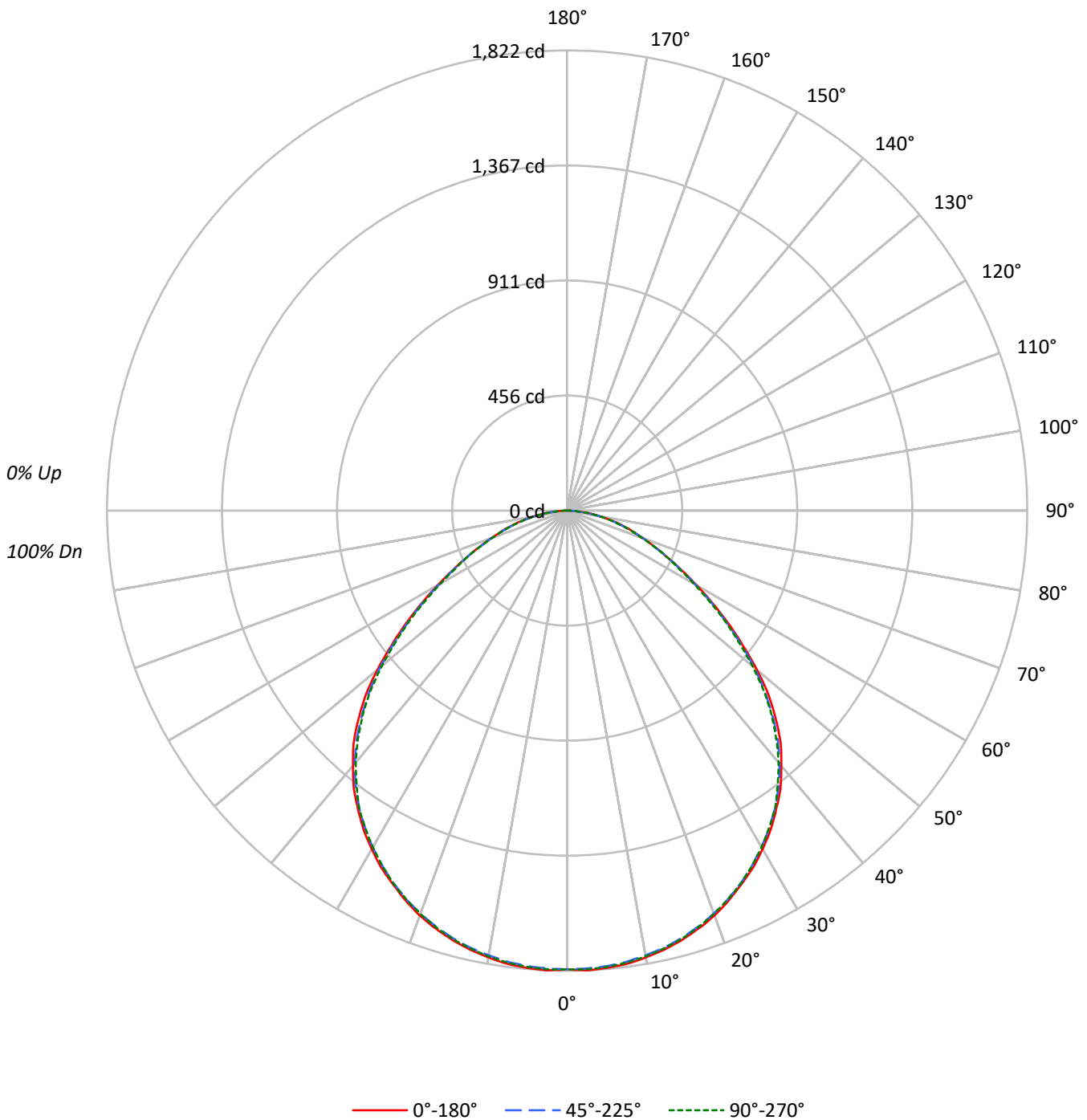
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4626.0 lumens
Efficiency: N/A
Efficacy: 124.4 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: P738543
CATALOG NUMBER: 24PT-45-PR1-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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66		75	70	65		72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50		60	54	49		59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44		55	48	43		53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39		50	44	39		49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		42	36	31		41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	29		38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2604	2604	2604
5°	2617	2606	2610
10°	2616	2603	2609
15°	2612	2601	2605
20°	2604	2591	2593
25°	2583	2575	2576
30°	2562	2548	2548
35°	2527	2512	2515
40°	2470	2449	2438
45°	2371	2333	2321
50°	2189	2157	2137
55°	1948	1921	1908
60°	1699	1680	1662
65°	1488	1490	1481
70°	1339	1335	1316
75°	1248	1211	1214
80°	1114	1093	1093
85°	859	885	851



TEST NUMBER: P738543

CATALOG NUMBER: 24PT-45-PR1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	3.7
10°-20°	494.8	10.7
20°-30°	750.1	16.2
30°-40°	897.2	19.4
40°-50°	885.8	19.1
50°-60°	689.5	14.9
60°-70°	437.7	9.5
70°-80°	234.9	5.1
80°-90°	63.7	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°	1417.2	30.6
0°-40°	2314.4	50.0
0°-60°	3889.7	84.1
0°-90°	4626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1818	1812	1810	1809	1813	173
15°	1760	1754	1752	1750	1755	497
25°	1632	1629	1627	1624	1628	753
35°	1444	1441	1435	1430	1437	903
45°	1169	1161	1151	1145	1144	898
55°	779	775	768	763	763	698
65°	439	440	439	434	437	440
75°	225	222	219	218	219	238
85°	52	53	54	54	52	64
90°	0	0	0	0	0	



TEST NUMBER: P738543

CATALOG NUMBER: 24PT-45-PR1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.4	1816.4	1816.4	1816.4	1816.4
2.5°	1822.5	1816.4	1814.4	1813.4	1818.0
5°	1818.0	1812.4	1810.4	1809.3	1813.4
7.5°	1810.4	1803.8	1801.7	1800.7	1805.3
10°	1796.7	1790.6	1788.0	1788.0	1792.1
12.5°	1780.4	1775.4	1772.8	1770.8	1775.4
15°	1759.6	1753.6	1752.0	1750.0	1755.1
17.5°	1734.8	1728.7	1726.7	1725.7	1729.2
20°	1706.4	1698.8	1697.8	1697.3	1699.3
22.5°	1671.4	1667.3	1665.3	1664.3	1665.8
25°	1632.4	1629.3	1627.3	1624.2	1628.3
27.5°	1594.3	1590.3	1585.2	1582.7	1585.2
30°	1547.7	1542.6	1539.1	1538.0	1539.1
32.5°	1499.5	1494.4	1489.9	1489.4	1488.8
35°	1443.7	1440.7	1435.1	1430.5	1436.6
37.5°	1388.4	1381.3	1376.3	1370.7	1369.2
40°	1319.5	1316.9	1308.3	1303.3	1302.7
42.5°	1252.5	1240.9	1234.8	1231.2	1225.7
45°	1169.4	1161.3	1150.6	1145.0	1144.5
47.5°	1082.7	1072.5	1062.4	1054.8	1056.8
50°	981.2	976.7	967.0	960.5	957.9
52.5°	876.8	875.8	865.6	861.6	857.0
55°	779.4	775.4	768.3	763.2	763.2
57.5°	683.6	680.0	676.5	666.8	666.8
60°	592.3	591.8	585.7	580.1	579.6
62.5°	510.7	513.7	508.1	502.5	499.5
65°	438.6	440.2	439.1	433.6	436.6
67.5°	375.3	375.8	373.7	370.7	372.7
70°	319.5	322.0	318.5	316.4	313.9
72.5°	270.8	269.8	266.7	268.3	264.7
75°	225.2	221.6	218.6	218.1	219.1
77.5°	179.5	178.5	176.0	176.0	174.4
80°	134.9	133.9	132.4	132.9	132.4
82.5°	95.8	93.3	91.3	92.3	92.8
85°	52.2	53.2	53.8	53.8	51.7
87.5°	21.3	20.8	21.3	22.3	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)