

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: P738207

Luminaire Tested: **22PT-45-PR1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506224)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PR1-L830
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

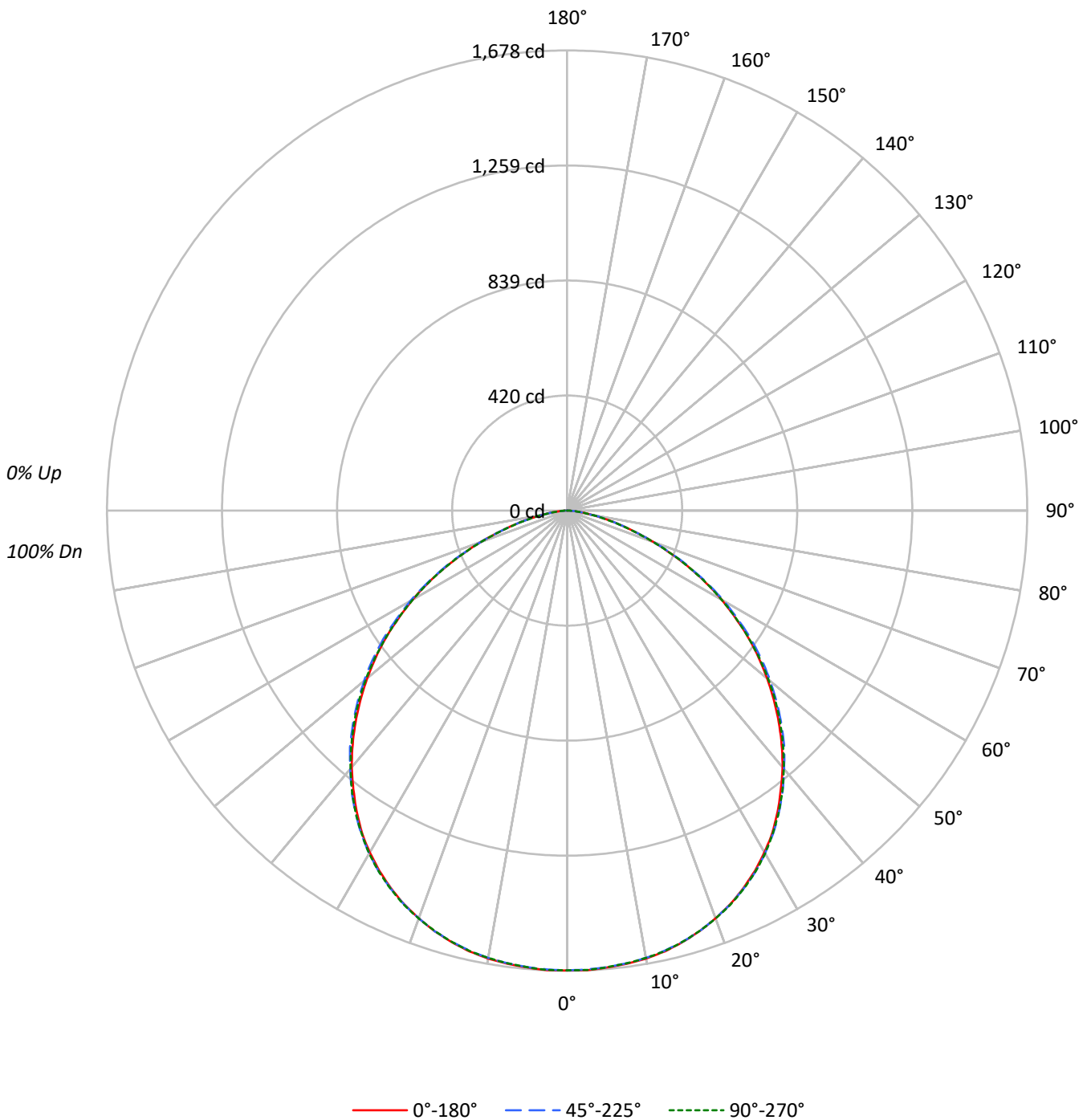
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4480.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 35.3
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: P738207
CATALOG NUMBER: 22PT-45-PR1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P738207

CATALOG NUMBER: 22PT-45-PR1-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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	85
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	71	58	50	43	70	58	49	43	56	48	43		54	48	43		52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	36
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	31		41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4913	4913	4913
5°	4920	4916	4916
10°	4935	4928	4928
15°	4941	4936	4938
20°	4934	4933	4936
25°	4913	4918	4923
30°	4869	4884	4886
35°	4787	4813	4811
40°	4675	4707	4701
45°	4522	4580	4556
50°	4338	4405	4369
55°	4118	4183	4124
60°	3817	3870	3804
65°	3406	3441	3401
70°	2866	2866	2847
75°	2245	2245	2220
80°	1643	1625	1618
85°	1072	1072	1093



TEST NUMBER: P738207

CATALOG NUMBER: 22PT-45-PR1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	3.6
10°-20°	459.4	10.3
20°-30°	700.8	15.6
30°-40°	839.9	18.7
40°-50°	848.3	18.9
50°-60°	725.8	16.2
60°-70°	489.4	10.9
70°-80°	215.9	4.8
80°-90°	41.4	0.9
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°	1319.3	29.4
0°-40°	2159.2	48.2
0°-60°	3733.2	83.3
0°-90°	4480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1673	1670	1672	1670	1672	159
15°	1629	1628	1627	1627	1628	460
25°	1520	1521	1521	1521	1523	700
35°	1338	1346	1346	1344	1345	836
45°	1091	1100	1105	1104	1100	841
55°	806	813	819	818	807	718
65°	491	495	496	495	491	485
75°	198	199	198	199	196	216
85°	32	32	32	32	32	41
90°	0	0	0	0	0	



TEST NUMBER: P738207

CATALOG NUMBER: 22PT-45-PR1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1676.6	1676.6	1676.6	1676.6	1676.6
2.5°	1677.7	1675.5	1674.8	1674.4	1676.6
5°	1672.6	1670.4	1671.5	1670.4	1671.5
7.5°	1666.5	1664.3	1664.9	1663.6	1664.9
10°	1658.7	1656.4	1656.4	1655.3	1656.4
12.5°	1646.3	1644.7	1644.0	1642.9	1644.7
15°	1628.9	1628.4	1627.3	1626.7	1627.8
17.5°	1607.7	1606.6	1607.7	1606.0	1607.1
20°	1582.5	1583.1	1582.0	1582.5	1583.1
22.5°	1553.9	1553.9	1554.5	1554.5	1555.6
25°	1519.8	1521.3	1521.3	1521.3	1522.6
27.5°	1481.7	1483.9	1485.5	1484.4	1485.5
30°	1439.1	1443.0	1443.5	1443.0	1444.1
32.5°	1393.1	1396.0	1397.5	1396.4	1395.3
35°	1338.2	1346.1	1345.6	1344.3	1345.0
37.5°	1280.5	1288.4	1291.1	1288.9	1289.5
40°	1222.3	1229.0	1230.6	1231.3	1229.0
42.5°	1157.8	1165.7	1171.9	1169.0	1165.7
45°	1091.2	1099.6	1105.2	1103.5	1099.6
47.5°	1022.3	1030.1	1038.0	1035.1	1031.3
50°	951.7	959.5	966.3	965.2	958.4
52.5°	879.4	888.4	894.6	892.4	883.4
55°	806.2	813.4	818.9	817.8	807.3
57.5°	726.6	736.0	738.9	737.1	729.4
60°	651.4	657.7	660.4	658.2	649.2
62.5°	571.3	576.4	578.6	578.1	572.0
65°	491.3	495.2	496.3	495.2	490.6
67.5°	409.0	414.5	415.2	415.2	410.6
70°	334.5	336.0	334.5	338.9	332.3
72.5°	262.1	263.2	262.1	262.1	259.3
75°	198.3	198.8	198.3	198.8	196.1
77.5°	143.4	144.5	142.3	144.0	141.2
80°	97.4	97.4	96.3	97.0	95.9
82.5°	60.5	61.6	60.0	60.0	59.4
85°	31.9	31.9	31.9	32.5	32.5
87.5°	11.2	11.2	11.7	11.7	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)