

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: P738215

Luminaire Tested: **22PT-45-PW1-L830**

Issue Date: 2/8/2024



**Test Information**

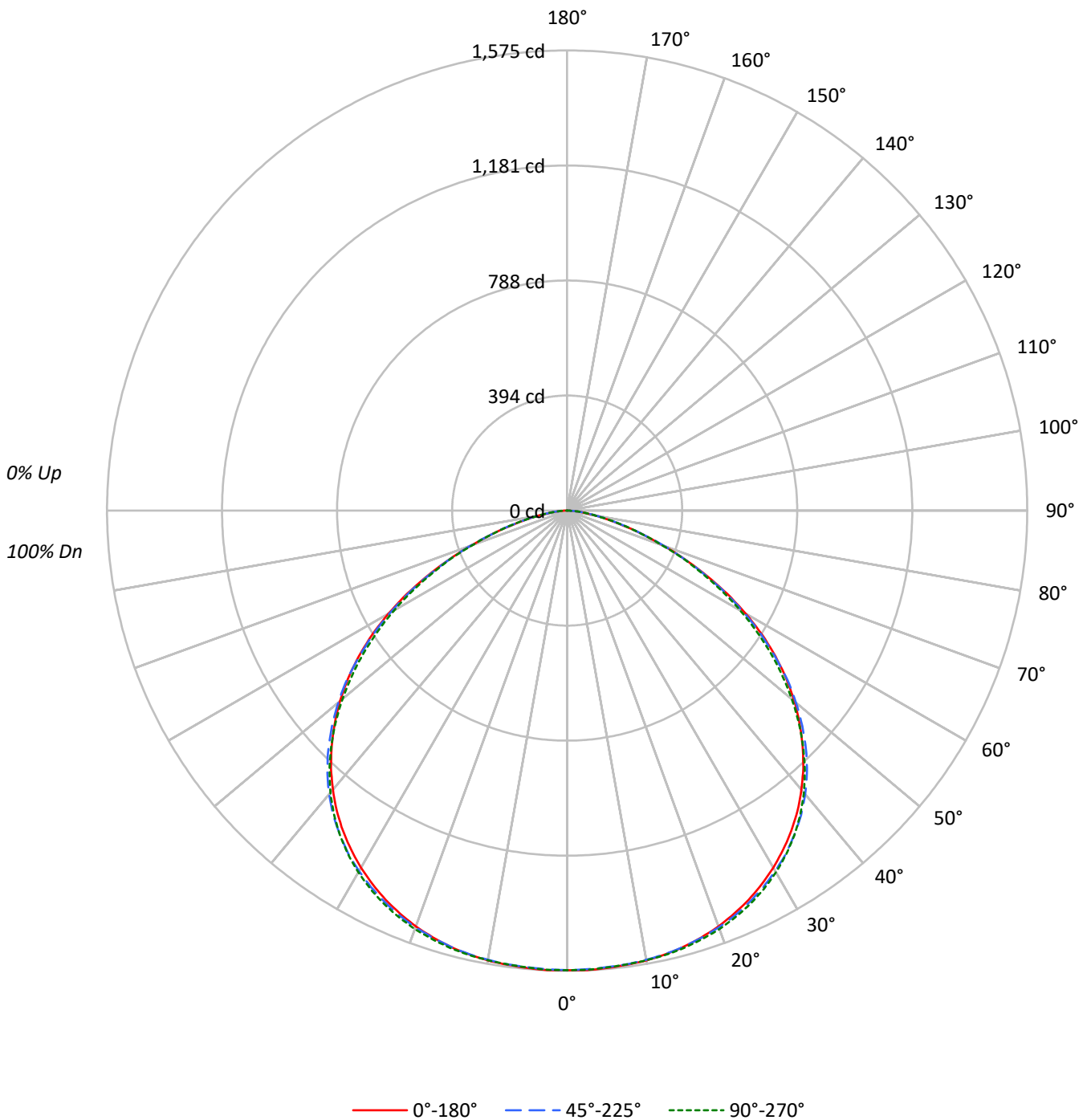
Test Method: LM-79-08  
Report Number: P738215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506233)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-45-PW1-L830  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4547.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44  
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 (A<sub>in</sub>): 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: P738215  
CATALOG NUMBER: 22PT-45-PW1-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P738215

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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	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					100			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39					39			
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35					35			
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4609	4609	4609
5°	4622	4615	4617
10°	4652	4645	4650
15°	4688	4686	4700
20°	4723	4733	4753
25°	4751	4778	4800
30°	4775	4820	4837
35°	4786	4848	4850
40°	4772	4849	4821
45°	4725	4792	4734
50°	4629	4662	4577
55°	4448	4428	4345
60°	4141	4095	4009
65°	3652	3617	3547
70°	2992	3005	2943
75°	2265	2342	2323
80°	1642	1708	1679
85°	1076	1116	1190



TEST NUMBER: P738215

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.6	3.3
10°-20°	436.9	9.6
20°-30°	681.1	15.0
30°-40°	844.2	18.6
40°-50°	883.3	19.4
50°-60°	769.8	16.9
60°-70°	515.6	11.3
70°-80°	223.5	4.9
80°-90°	43.0	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°	1267.5	27.9
0°-40°	2111.7	46.4
0°-60°	3764.8	82.8
0°-90°	4547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1571	1570	1569	1569	1570	150
15°	1545	1543	1545	1547	1549	437
25°	1470	1470	1478	1482	1485	678
35°	1338	1343	1355	1357	1356	836
45°	1140	1146	1156	1147	1142	878
55°	871	870	867	857	851	775
65°	527	524	522	517	512	521
75°	200	204	207	205	205	221
85°	32	34	33	34	35	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1573.0	1573.0	1573.0	1573.0	1573.0
2.5°	1574.7	1571.8	1571.3	1571.3	1573.0
5°	1571.3	1569.6	1569.0	1568.6	1569.6
7.5°	1568.0	1565.7	1566.3	1565.1	1566.3
10°	1563.5	1561.2	1561.2	1561.2	1562.9
12.5°	1555.6	1553.9	1554.5	1555.6	1557.8
15°	1545.4	1543.1	1544.9	1546.6	1549.4
17.5°	1531.3	1529.7	1532.5	1535.4	1537.6
20°	1514.6	1512.8	1517.9	1521.9	1524.2
22.5°	1493.7	1493.2	1500.0	1504.4	1506.1
25°	1469.6	1470.1	1478.0	1482.5	1484.7
27.5°	1442.0	1443.2	1453.3	1457.2	1459.4
30°	1411.2	1413.9	1424.6	1427.9	1429.7
32.5°	1376.2	1380.2	1393.1	1395.3	1395.3
35°	1338.1	1343.0	1355.4	1357.1	1356.0
37.5°	1295.3	1300.9	1314.9	1312.7	1311.0
40°	1247.5	1253.6	1267.7	1263.2	1260.5
42.5°	1196.4	1202.5	1214.9	1208.2	1204.1
45°	1140.2	1146.3	1156.5	1146.9	1142.4
47.5°	1079.3	1086.7	1091.7	1081.1	1075.5
50°	1015.4	1017.6	1022.7	1010.3	1004.0
52.5°	945.6	945.6	949.6	936.0	928.7
55°	870.8	870.2	866.9	857.4	850.6
57.5°	791.6	788.2	785.9	775.8	768.0
60°	706.7	701.6	698.8	690.4	684.1
62.5°	617.9	615.1	611.6	604.9	598.2
65°	526.7	523.9	521.7	516.7	511.6
67.5°	436.3	434.5	434.5	431.2	430.6
70°	349.2	350.2	350.8	350.8	343.5
72.5°	270.4	271.0	273.8	271.6	271.0
75°	200.1	203.6	206.9	205.2	205.2
77.5°	143.9	149.0	149.0	147.8	146.2
80°	97.3	99.5	101.2	100.6	99.5
82.5°	61.9	63.5	61.9	62.9	63.5
85°	32.0	34.2	33.2	33.8	35.4
87.5°	10.6	11.8	12.4	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)