

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: P738542

Luminaire Tested: **24PT-45-PL1-L950**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738542  
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-L950  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 90 CRI LEDS AND LEAVES LENS

Light Source: -  
Ballast/Driver: -

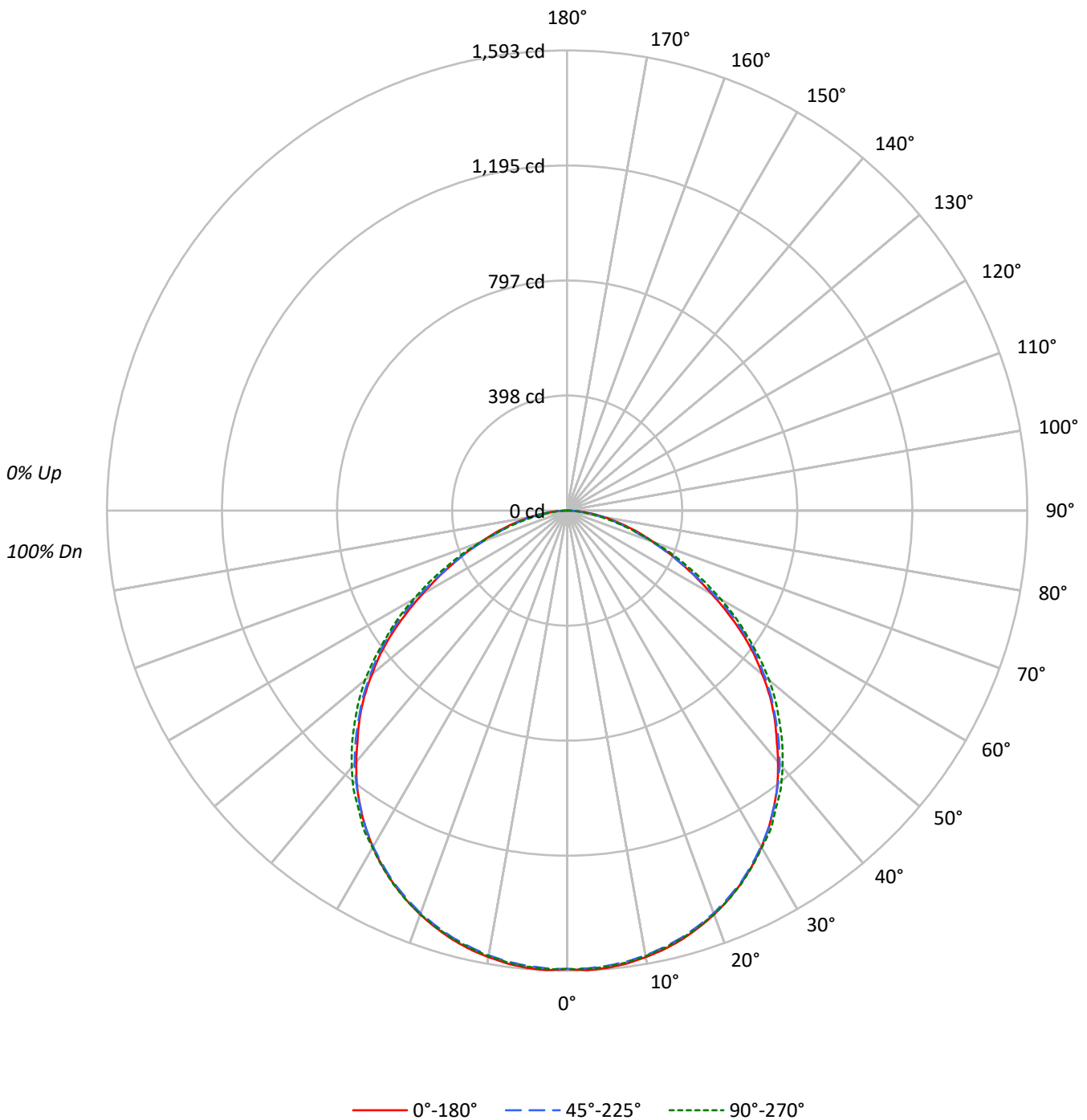
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4201.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 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<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

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### 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°	2276	2276	2276
5°	2287	2277	2280
10°	2286	2276	2280
15°	2281	2272	2277
20°	2270	2263	2269
25°	2253	2248	2255
30°	2227	2224	2231
35°	2186	2187	2204
40°	2126	2142	2171
45°	2060	2069	2110
50°	1968	1990	2038
55°	1847	1882	1910
60°	1659	1699	1762
65°	1484	1487	1568
70°	1324	1287	1333
75°	1196	1125	1105
80°	1062	991	874
85°	870	826	683



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.5	3.6
10°-20°	432.3	10.3
20°-30°	654.9	15.6
30°-40°	782.6	18.6
40°-50°	789.5	18.8
50°-60°	669.8	15.9
60°-70°	443.2	10.5
70°-80°	219.9	5.2
80°-90°	58.2	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°	1237.7	29.5
0°-40°	2020.4	48.1
0°-60°	3479.7	82.8
0°-90°	4201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4201.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1589	1584	1582	1581	1584	151
15°	1537	1532	1531	1531	1534	434
25°	1424	1421	1421	1421	1426	656
35°	1249	1247	1250	1256	1259	780
45°	1016	1015	1020	1034	1041	782
55°	739	741	753	760	764	657
65°	438	437	438	452	462	437
75°	216	210	203	197	199	231
85°	53	53	50	46	42	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1592.6	1587.6	1586.2	1585.3	1588.9
5°	1588.9	1583.5	1582.1	1581.2	1584.4
7.5°	1581.6	1575.7	1574.8	1573.9	1578.0
10°	1569.8	1564.3	1563.4	1562.5	1566.1
12.5°	1555.6	1550.2	1548.3	1548.8	1551.1
15°	1536.9	1531.9	1530.6	1530.6	1533.7
17.5°	1513.7	1509.1	1508.2	1507.7	1511.8
20°	1487.7	1483.1	1483.1	1484.5	1486.8
22.5°	1458.0	1454.8	1453.0	1453.9	1458.5
25°	1424.3	1421.1	1421.1	1420.6	1425.6
27.5°	1386.8	1382.7	1382.7	1386.4	1388.2
30°	1344.9	1341.2	1343.1	1345.8	1347.6
32.5°	1299.7	1297.4	1298.8	1302.9	1310.2
35°	1249.1	1247.3	1249.5	1256.4	1259.1
37.5°	1196.2	1194.8	1198.0	1207.1	1214.9
40°	1135.9	1135.9	1144.6	1152.8	1160.1
42.5°	1073.4	1077.5	1083.9	1096.7	1103.1
45°	1016.0	1014.6	1020.5	1034.2	1040.6
47.5°	952.1	950.7	959.4	969.0	979.5
50°	882.3	881.8	892.3	900.5	913.8
52.5°	814.3	818.4	825.3	832.6	840.3
55°	739.0	740.9	752.7	759.6	764.1
57.5°	657.8	663.8	678.4	688.4	692.5
60°	578.5	582.1	592.6	610.4	614.5
62.5°	506.4	507.8	514.1	534.2	539.7
65°	437.5	436.6	438.4	452.1	462.1
67.5°	375.0	371.3	371.3	378.6	391.0
70°	315.7	310.2	307.0	309.3	318.0
72.5°	266.0	258.7	250.5	249.1	254.6
75°	215.8	209.9	203.0	196.6	199.4
77.5°	172.0	167.0	160.6	153.3	149.6
80°	128.6	126.8	120.0	113.1	105.8
82.5°	89.9	88.5	83.9	78.5	73.9
85°	52.9	52.9	50.2	46.1	41.5
87.5°	23.7	22.8	23.7	20.1	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)