

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1050535

Luminaire Tested: 24PTR-45-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-L940-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

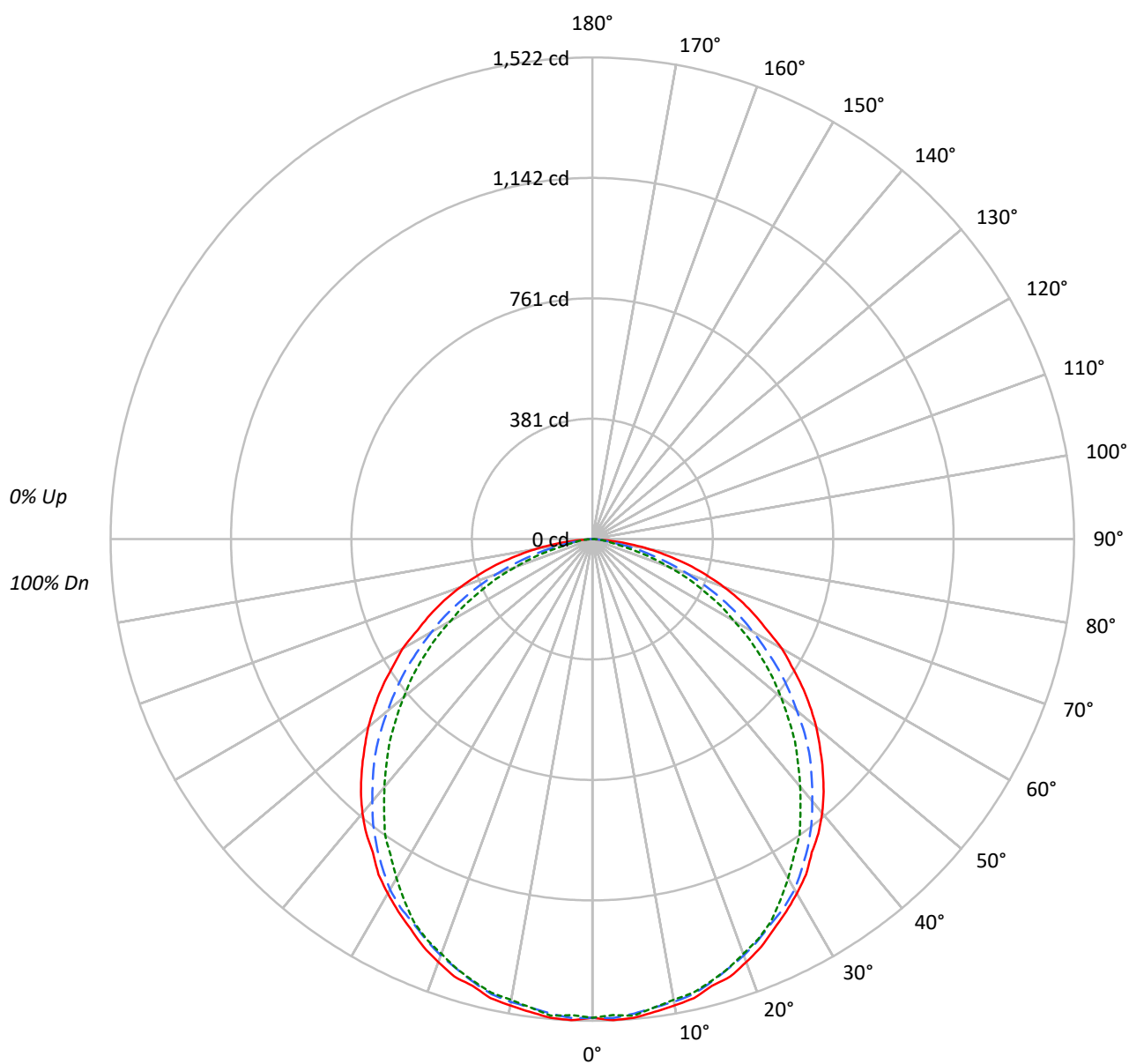
Lumens per Lamp: N/A
Luminaire Lumens: 4028.8 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2035	2035	2035
5°	2050	2033	2042
10°	2044	2028	2020
15°	2035	2019	2015
20°	2037	2004	1997
25°	2017	1987	1981
30°	2008	1986	1922
35°	1986	1950	1875
40°	1984	1899	1794
45°	1959	1850	1723
50°	1933	1767	1629
55°	1896	1684	1530
60°	1862	1576	1389
65°	1798	1445	1242
70°	1740	1258	1013
75°	1634	993	698
80°	1417	600	419
85°	946	431	403

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1959 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.6
10°-20°	410.3	10.2
20°-30°	619.7	15.4
30°-40°	736.8	18.3
40°-50°	747.3	18.5
50°-60°	648.9	16.1
60°-70°	460.7	11.4
70°-80°	220.1	5.5
80°-90°	41.7	1.0
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°	1173.3	29.1
0°-40°	1910.2	47.4
0°-60°	3306.3	82.1
0°-90°	4028.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4028.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1518	1512	1505	1509	1512	144
15°	1461	1465	1450	1448	1447	414
25°	1358	1357	1339	1344	1334	627
35°	1209	1207	1187	1147	1141	760
45°	1030	1021	972	921	905	794
55°	808	784	718	676	652	722
65°	565	522	454	405	390	559
75°	314	257	191	151	134	330
85°	61	32	28	27	26	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.5	1512.5	1512.5	1512.5	1512.5
2.5°	1521.5	1516.1	1514.3	1520.6	1505.3
5°	1517.9	1512.5	1505.3	1508.9	1511.6
7.5°	1507.1	1502.6	1492.7	1500.8	1492.7
10°	1496.3	1491.8	1484.6	1487.3	1478.3
12.5°	1485.5	1474.7	1472.9	1474.7	1468.4
15°	1461.2	1464.8	1449.5	1447.7	1446.8
17.5°	1449.5	1440.4	1424.2	1425.1	1423.3
20°	1422.4	1411.6	1399.9	1398.1	1394.5
22.5°	1394.5	1381.9	1371.1	1376.5	1368.4
25°	1358.5	1356.7	1338.7	1344.1	1334.1
27.5°	1326.9	1320.6	1312.5	1300.8	1286.4
30°	1292.7	1286.4	1278.3	1247.7	1236.9
32.5°	1256.7	1249.5	1233.3	1197.2	1185.5
35°	1208.9	1207.1	1187.3	1146.8	1141.4
37.5°	1172.9	1153.1	1136.9	1095.4	1080.1
40°	1129.7	1118.8	1081.0	1041.4	1021.6
42.5°	1081.9	1069.3	1026.1	983.7	962.1
45°	1029.7	1020.7	972.0	920.7	905.3
47.5°	975.6	967.5	909.9	860.3	840.5
50°	923.4	913.5	844.1	796.3	778.3
52.5°	866.6	850.4	781.9	735.1	718.0
55°	808.1	783.7	718.0	675.6	652.2
57.5°	745.9	723.4	650.4	606.3	587.3
60°	691.8	660.3	585.5	540.5	516.2
62.5°	622.5	595.5	524.3	471.1	459.4
65°	564.8	522.5	454.0	405.4	390.1
67.5°	506.3	456.7	387.4	337.8	329.7
70°	442.3	391.0	319.8	271.2	257.6
72.5°	377.5	327.0	257.6	206.3	198.2
75°	314.4	256.7	191.0	151.3	134.2
77.5°	245.9	193.7	134.2	92.8	82.0
80°	182.9	130.6	77.5	55.0	54.1
82.5°	119.8	75.7	41.4	42.3	40.5
85°	61.3	32.4	27.9	27.0	26.1
87.5°	11.7	12.6	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)