

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: P1050920

Luminaire Tested: 24PTR-45-PP3-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PP3-L940-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

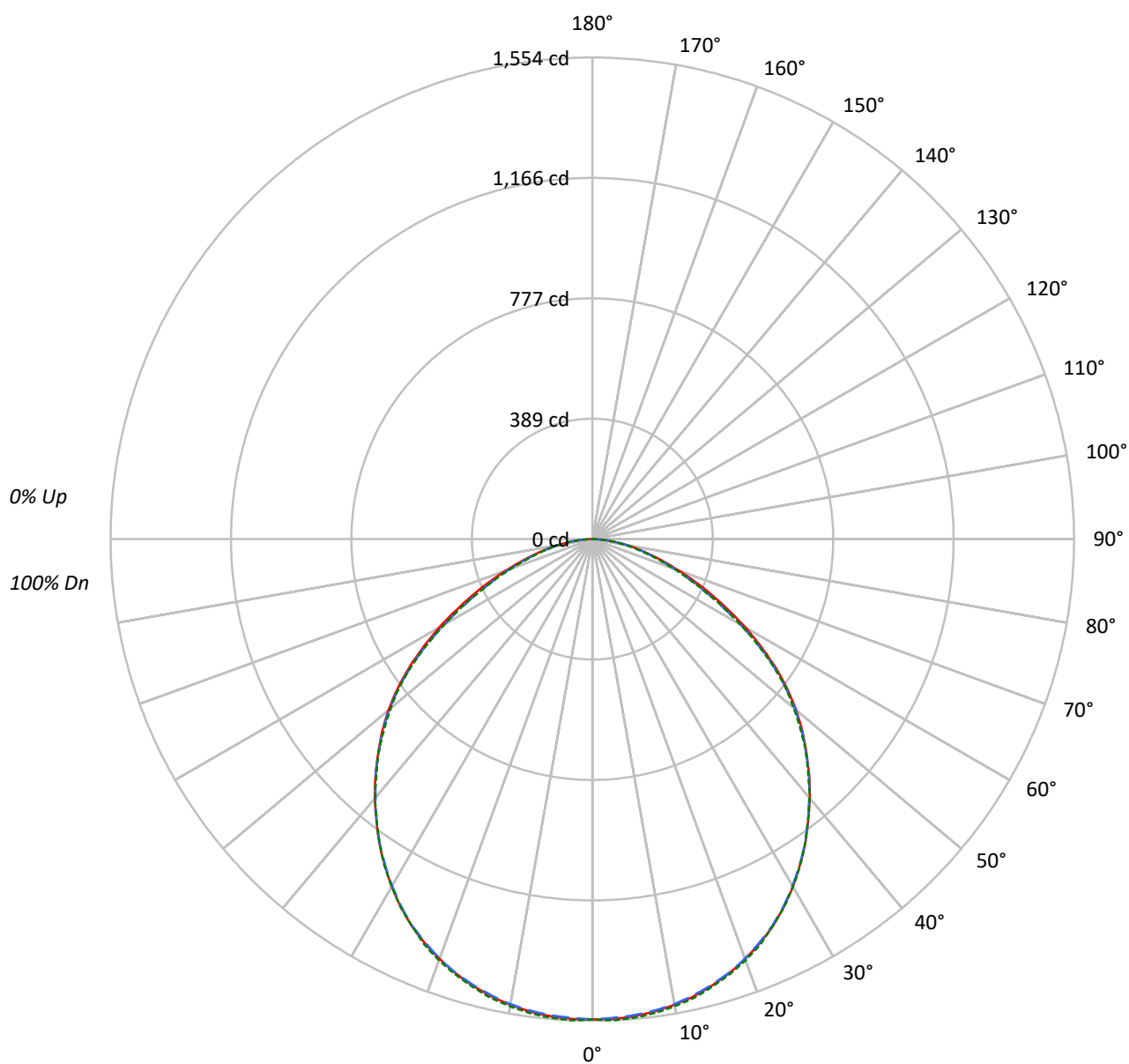
Lumens per Lamp: N/A
Luminaire Lumens: 4004.2 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	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	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2085	2085	2085
5°	2087	2082	2094
10°	2084	2081	2091
15°	2077	2073	2083
20°	2064	2062	2071
25°	2045	2042	2044
30°	2011	2007	2011
35°	1967	1964	1966
40°	1917	1911	1916
45°	1859	1854	1856
50°	1797	1788	1776
55°	1692	1672	1667
60°	1535	1484	1486
65°	1348	1281	1279
70°	1166	1113	1100
75°	1009	971	950
80°	893	880	841
85°	738	764	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.7
10°-20°	421.0	10.5
20°-30°	633.9	15.8
30°-40°	748.2	18.7
40°-50°	752.4	18.8
50°-60°	635.2	15.9
60°-70°	408.0	10.2
70°-80°	202.9	5.1
80°-90°	55.6	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°	1201.9	30.0
0°-40°	1950.1	48.7
0°-60°	3337.7	83.4
0°-90°	4004.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4004.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1545	1546	1542	1549	1550	147
15°	1491	1492	1488	1495	1495	421
25°	1378	1378	1375	1378	1377	634
35°	1198	1198	1196	1197	1197	748
45°	977	980	974	975	975	754
55°	721	720	713	710	710	641
65°	424	417	402	398	402	422
75°	194	193	187	185	183	210
85°	48	50	50	47	47	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1549.1	1549.7	1545.7	1553.0	1554.2
5°	1545.2	1545.7	1541.8	1549.1	1550.2
7.5°	1537.3	1537.9	1534.4	1541.2	1542.4
10°	1525.4	1527.3	1523.2	1529.5	1530.5
12.5°	1510.9	1511.5	1507.4	1514.8	1516.0
15°	1491.3	1491.7	1488.4	1495.2	1495.2
17.5°	1468.6	1469.2	1467.0	1472.7	1472.1
20°	1441.2	1442.8	1440.0	1443.9	1446.1
22.5°	1411.4	1412.0	1408.5	1413.6	1415.9
25°	1377.6	1378.1	1375.4	1378.1	1377.0
27.5°	1338.2	1339.2	1335.3	1338.2	1338.8
30°	1294.2	1297.1	1291.6	1293.8	1294.2
32.5°	1247.0	1248.7	1244.8	1245.4	1248.3
35°	1197.6	1198.2	1195.9	1197.0	1197.0
37.5°	1144.2	1146.5	1143.0	1144.6	1142.4
40°	1091.3	1089.0	1087.8	1089.0	1090.7
42.5°	1035.5	1036.1	1034.5	1033.2	1030.6
45°	977.0	980.5	974.2	975.4	975.4
47.5°	919.8	920.2	916.9	913.5	911.2
50°	858.5	858.5	854.4	851.7	848.3
52.5°	791.4	790.4	785.9	783.0	784.7
55°	721.1	720.5	712.7	709.9	710.5
57.5°	644.1	645.3	633.4	630.6	630.6
60°	570.5	564.8	551.3	547.4	552.3
62.5°	493.2	486.5	472.0	472.0	475.8
65°	423.5	417.4	402.3	398.2	401.6
67.5°	358.3	352.6	338.7	336.4	337.5
70°	296.4	291.5	282.9	277.8	279.6
72.5°	243.0	238.5	232.8	228.9	226.7
75°	194.0	193.0	186.8	185.0	182.7
77.5°	153.5	153.1	148.0	145.7	143.5
80°	115.3	114.7	113.6	110.2	108.5
82.5°	82.2	82.2	81.6	78.7	77.1
85°	47.8	49.5	49.5	46.6	46.6
87.5°	19.2	20.2	19.2	19.2	18.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)