

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: P1050690

Luminaire Tested: 24PTR-50-PC3-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PC3-L940-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

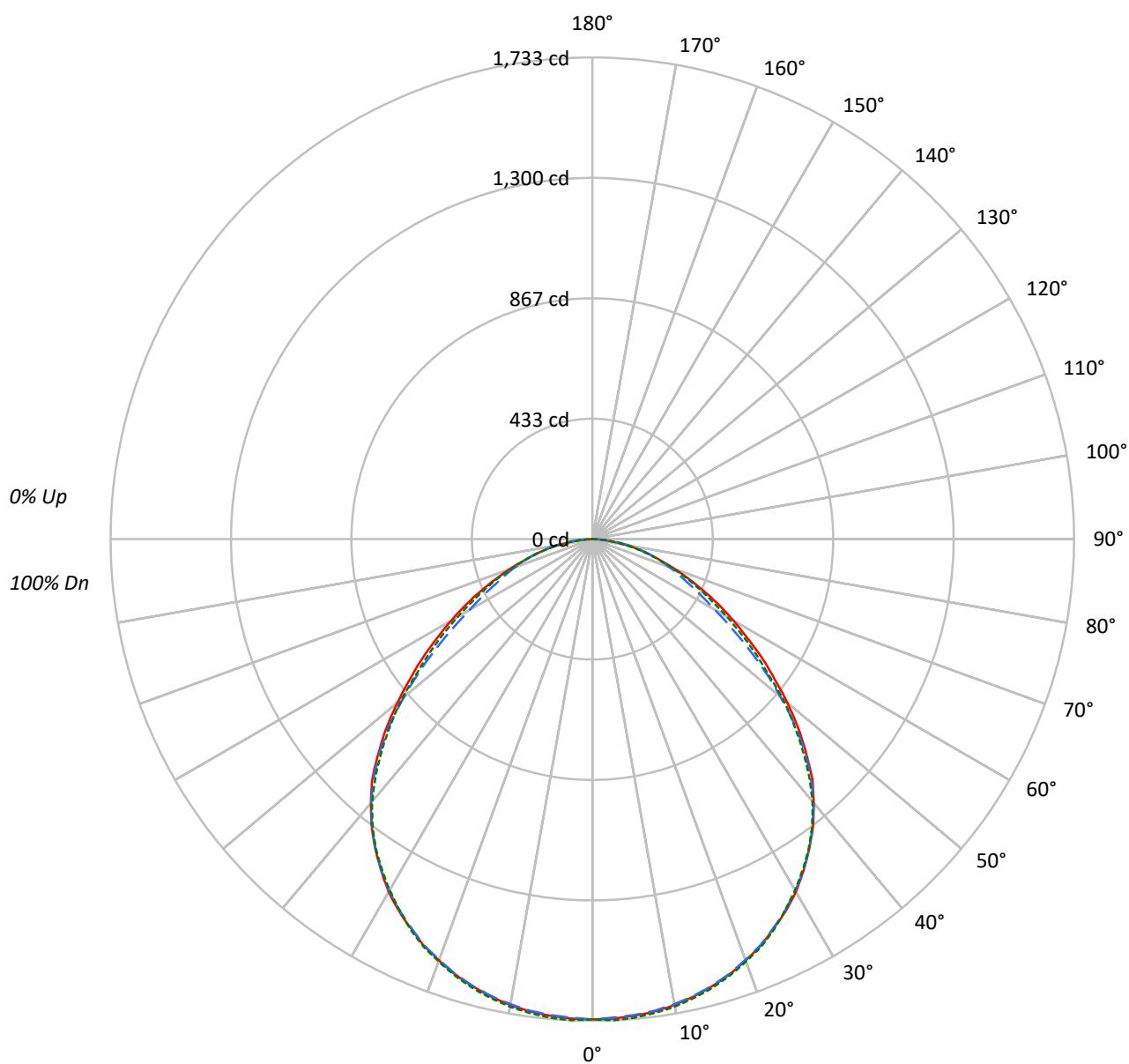
Lumens per Lamp: N/A
Luminaire Lumens: 4356.3 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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

TEST NUMBER: P1050690

CATALOG NUMBER: 24PTR-50-PC3-L940-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050690

CATALOG NUMBER: 24PTR-50-PC3-L940-UNV-STD-W

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2325	2325	2325
5°	2326	2321	2335
10°	2325	2321	2334
15°	2320	2317	2328
20°	2309	2306	2316
25°	2294	2290	2299
30°	2277	2269	2265
35°	2235	2233	2229
40°	2176	2173	2163
45°	2070	2054	2033
50°	1916	1851	1872
55°	1748	1607	1679
60°	1576	1371	1503
65°	1409	1226	1352
70°	1250	1160	1216
75°	1105	1124	1083
80°	954	1073	948
85°	715	849	715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2074 cd/sqm

TEST NUMBER: P1050690

CATALOG NUMBER: 24PTR-50-PC3-L940-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.8
10°-20°	470.4	10.8
20°-30°	712.2	16.3
30°-40°	849.1	19.5
40°-50°	829.7	19.0
50°-60°	634.4	14.6
60°-70°	407.3	9.4
70°-80°	226.6	5.2
80°-90°	62.6	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°	1346.5	30.9
0°-40°	2195.7	50.4
0°-60°	3659.8	84.0
0°-90°	4356.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4356.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1722	1723	1719	1727	1729	164
15°	1666	1667	1664	1669	1671	470
25°	1545	1547	1543	1548	1549	713
35°	1361	1362	1360	1359	1357	850
45°	1088	1090	1080	1077	1069	837
55°	745	720	685	693	716	666
65°	443	408	385	398	425	441
75°	213	214	216	213	208	227
85°	46	54	55	53	46	57
90°	0	0	0	0	0	

TEST NUMBER: P1050690

CATALOG NUMBER: 24PTR-50-PC3-L940-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.9	1727.9	1727.9	1727.9	1727.9
2.5°	1726.8	1727.5	1723.0	1730.4	1732.8
5°	1721.8	1723.0	1718.7	1726.8	1728.6
7.5°	1714.4	1715.6	1711.3	1719.4	1720.0
10°	1702.1	1702.8	1698.9	1707.0	1708.1
12.5°	1685.5	1687.3	1683.0	1690.4	1690.9
15°	1665.5	1666.8	1663.7	1669.3	1671.1
17.5°	1642.1	1642.8	1639.7	1645.7	1646.4
20°	1612.9	1612.9	1610.5	1617.4	1617.4
22.5°	1583.3	1581.5	1580.8	1583.3	1587.1
25°	1545.1	1546.9	1542.7	1547.6	1548.7
27.5°	1508.1	1508.1	1504.3	1506.7	1503.6
30°	1465.4	1462.9	1460.5	1460.9	1458.0
32.5°	1414.0	1414.0	1412.9	1412.9	1409.0
35°	1361.0	1362.1	1359.6	1359.0	1357.2
37.5°	1304.0	1306.0	1301.5	1300.4	1299.0
40°	1239.1	1239.1	1237.3	1234.8	1231.7
42.5°	1171.7	1171.7	1163.8	1157.6	1153.3
45°	1087.7	1090.2	1079.6	1077.2	1068.6
47.5°	1004.2	1002.4	988.2	986.4	981.5
50°	915.3	904.7	884.5	889.9	894.4
52.5°	826.3	813.3	783.7	789.7	797.1
55°	745.3	719.5	684.9	693.4	715.6
57.5°	660.6	626.0	591.5	607.6	635.2
60°	585.8	547.0	509.3	526.6	558.7
62.5°	514.2	472.9	442.6	459.2	486.4
65°	442.6	408.5	385.1	397.9	424.6
67.5°	377.0	354.1	338.2	344.2	365.8
70°	317.7	303.4	294.8	296.6	309.0
72.5°	261.4	257.8	254.6	254.6	255.8
75°	212.6	214.4	216.2	213.3	208.4
77.5°	167.5	173.6	178.1	171.8	165.7
80°	123.1	132.9	138.5	131.6	122.4
82.5°	84.0	95.2	97.0	92.7	82.2
85°	46.3	54.3	55.0	53.2	46.3
87.5°	17.3	20.4	22.2	20.4	18.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)