

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: P1050689

Luminaire Tested: 24PTR-45-PC3-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050689
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-45-PC3-L940-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

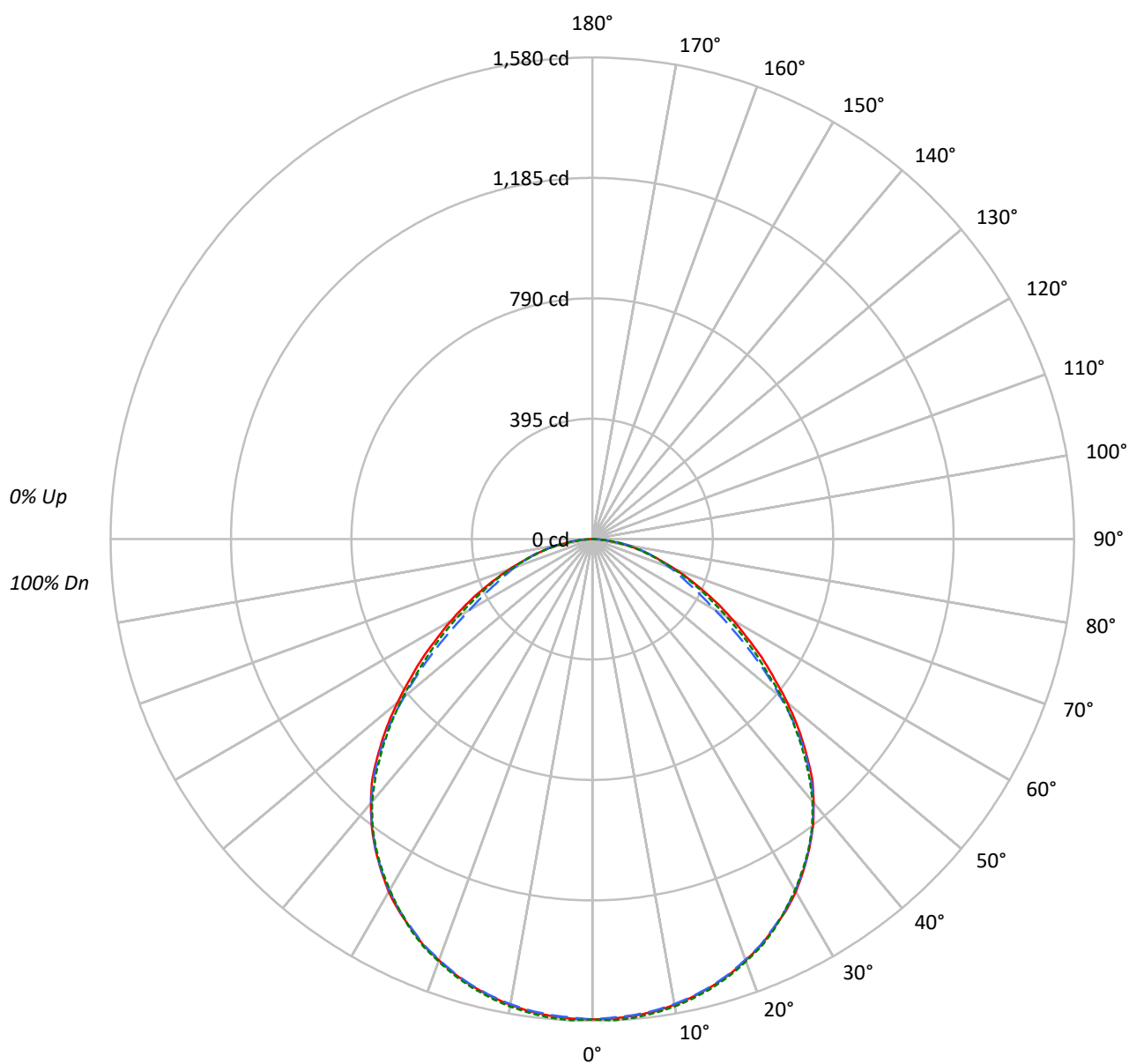
Lumens per Lamp: N/A
Luminaire Lumens: 3971.2 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2119	2119	2119
5°	2120	2116	2128
10°	2120	2116	2127
15°	2115	2113	2122
20°	2105	2102	2111
25°	2091	2088	2096
30°	2076	2069	2065
35°	2038	2036	2032
40°	1984	1981	1972
45°	1887	1873	1854
50°	1747	1688	1707
55°	1594	1464	1530
60°	1437	1249	1371
65°	1285	1118	1232
70°	1139	1057	1108
75°	1008	1025	988
80°	869	979	865
85°	651	775	651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1891 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	3.8
10°-20°	428.8	10.8
20°-30°	649.3	16.3
30°-40°	774.1	19.5
40°-50°	756.3	19.0
50°-60°	578.3	14.6
60°-70°	371.3	9.4
70°-80°	206.6	5.2
80°-90°	57.1	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°	1227.5	30.9
0°-40°	2001.6	50.4
0°-60°	3336.2	84.0
0°-90°	3971.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3971.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1570	1571	1567	1574	1576	149
15°	1518	1520	1517	1522	1523	428
25°	1408	1410	1406	1411	1412	650
35°	1241	1242	1240	1239	1237	775
45°	992	994	984	982	974	763
55°	679	656	624	632	652	607
65°	404	372	351	363	387	402
75°	194	196	197	194	190	207
85°	42	50	50	48	42	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1575.2	1575.2	1575.2	1575.2	1575.2
2.5°	1574.1	1574.8	1570.7	1577.4	1579.7
5°	1569.6	1570.7	1566.8	1574.1	1575.8
7.5°	1562.9	1563.9	1560.0	1567.4	1568.0
10°	1551.6	1552.2	1548.8	1556.1	1557.1
12.5°	1536.5	1538.1	1534.2	1541.0	1541.4
15°	1518.3	1519.5	1516.6	1521.7	1523.4
17.5°	1497.0	1497.6	1494.7	1500.2	1500.9
20°	1470.4	1470.4	1468.1	1474.4	1474.4
22.5°	1443.3	1441.7	1441.1	1443.3	1446.8
25°	1408.5	1410.2	1406.3	1410.8	1411.8
27.5°	1374.8	1374.8	1371.3	1373.5	1370.7
30°	1335.9	1333.6	1331.4	1331.8	1329.1
32.5°	1289.0	1289.0	1288.0	1288.0	1284.5
35°	1240.7	1241.7	1239.5	1238.8	1237.2
37.5°	1188.7	1190.5	1186.4	1185.4	1184.2
40°	1129.5	1129.5	1127.9	1125.6	1122.8
42.5°	1068.1	1068.1	1061.0	1055.2	1051.3
45°	991.6	993.8	984.2	981.9	974.2
47.5°	915.4	913.8	900.9	899.2	894.7
50°	834.4	824.7	806.3	811.2	815.3
52.5°	753.3	741.4	714.4	719.9	726.7
55°	679.4	655.9	624.3	632.1	652.4
57.5°	602.2	570.7	539.2	553.9	579.1
60°	534.1	498.6	464.3	480.0	509.3
62.5°	468.8	431.1	403.5	418.6	443.4
65°	403.5	372.3	351.1	362.7	387.1
67.5°	343.7	322.8	308.3	313.8	333.5
70°	289.6	276.5	268.8	270.4	281.7
72.5°	238.3	235.0	232.1	232.1	233.2
75°	193.9	195.5	197.1	194.5	190.0
77.5°	152.7	158.2	162.3	156.6	151.1
80°	112.2	121.2	126.3	120.0	111.6
82.5°	76.6	86.8	88.4	84.5	74.9
85°	42.2	49.5	50.2	48.5	42.2
87.5°	15.8	18.6	20.3	18.6	16.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)