

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: P1050997

Luminaire Tested: 24PTR-45-PR1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PR1-L940-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

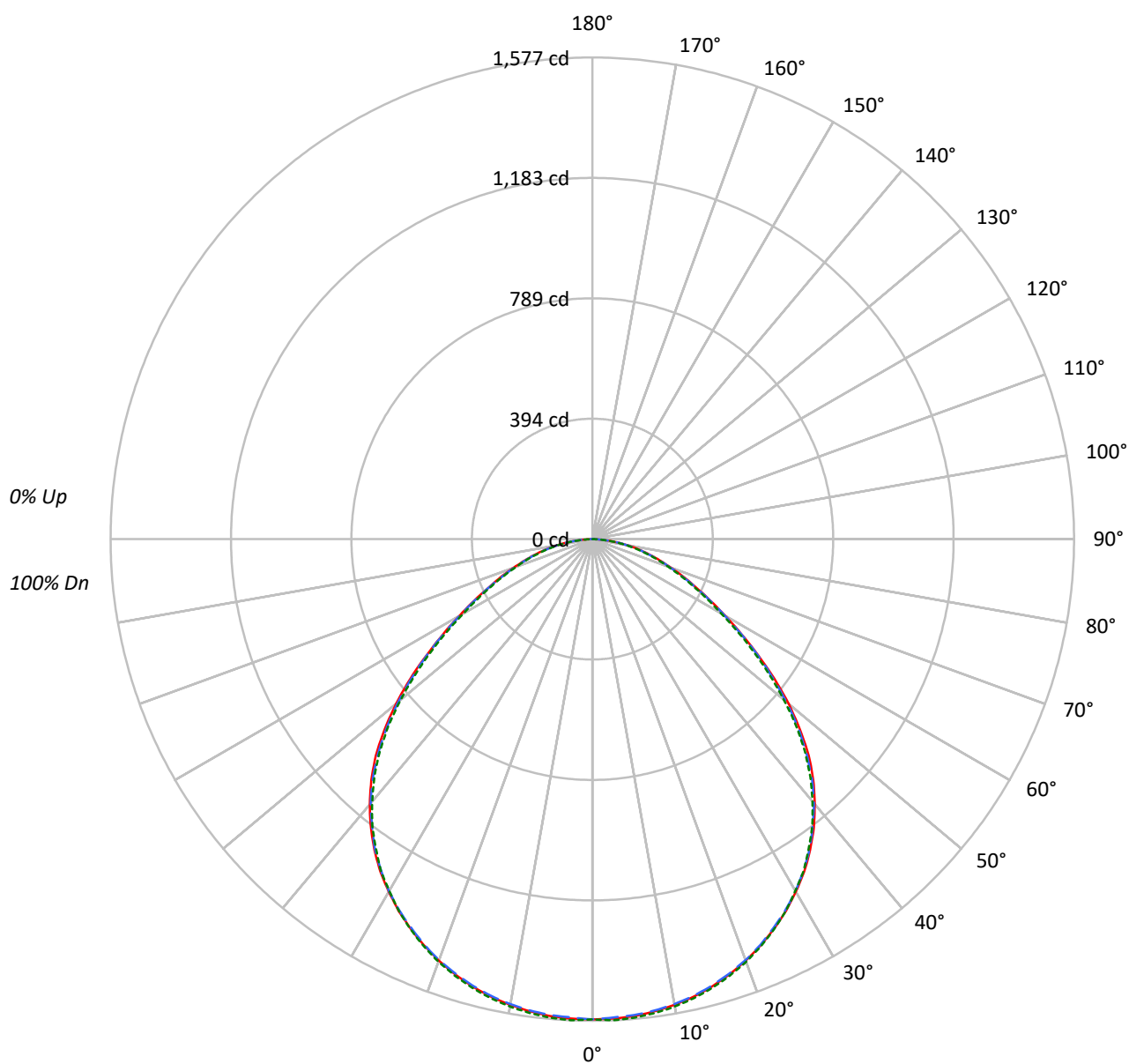
Lumens per Lamp: N/A
Luminaire Lumens: 3976.1 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	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	45	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	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2115	2115	2115
5°	2117	2113	2124
10°	2115	2112	2123
15°	2112	2108	2118
20°	2103	2100	2108
25°	2089	2084	2091
30°	2070	2068	2065
35°	2042	2037	2029
40°	1990	1982	1968
45°	1907	1886	1872
50°	1755	1735	1714
55°	1553	1547	1516
60°	1350	1345	1309
65°	1189	1182	1159
70°	1079	1064	1042
75°	999	976	958
80°	912	900	869
85°	721	715	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1907 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.8
10°-20°	428.0	10.8
20°-30°	648.5	16.3
30°-40°	774.1	19.5
40°-50°	761.3	19.1
50°-60°	588.4	14.8
60°-70°	371.0	9.3
70°-80°	200.7	5.0
80°-90°	54.8	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°	1225.7	30.8
0°-40°	1999.8	50.3
0°-60°	3349.5	84.2
0°-90°	3976.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3976.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1568	1568	1564	1571	1573	149
15°	1516	1516	1514	1518	1521	428
25°	1407	1408	1404	1408	1409	649
35°	1243	1244	1240	1239	1235	776
45°	1002	998	991	983	984	768
55°	662	668	659	649	646	594
65°	374	374	371	365	364	376
75°	192	190	188	189	184	204
85°	47	47	46	47	44	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1572.2	1572.2	1572.2	1572.2	1572.2
2.5°	1571.6	1572.2	1567.7	1575.0	1576.7
5°	1567.7	1568.3	1564.2	1571.0	1572.8
7.5°	1559.7	1560.9	1557.0	1563.8	1565.4
10°	1548.4	1549.7	1545.8	1552.5	1554.2
12.5°	1534.5	1534.9	1531.6	1537.8	1539.4
15°	1515.9	1516.3	1513.6	1518.5	1520.8
17.5°	1494.4	1495.0	1491.1	1497.2	1498.3
20°	1468.6	1469.0	1466.7	1471.9	1472.5
22.5°	1439.7	1440.9	1437.5	1442.0	1442.6
25°	1407.2	1408.2	1403.7	1408.2	1408.8
27.5°	1372.8	1373.2	1369.3	1372.8	1372.2
30°	1332.6	1336.1	1331.0	1329.8	1329.4
32.5°	1291.1	1291.5	1286.6	1285.3	1287.6
35°	1243.2	1243.6	1240.3	1238.7	1235.2
37.5°	1190.8	1190.8	1184.4	1183.4	1182.8
40°	1133.2	1132.6	1128.7	1124.8	1120.7
42.5°	1070.6	1071.8	1063.8	1057.1	1056.0
45°	1002.4	998.5	991.1	983.4	984.0
47.5°	921.9	923.0	912.9	906.6	904.9
50°	838.4	838.4	829.0	822.2	818.7
52.5°	751.2	751.8	742.8	733.8	731.9
55°	662.1	667.7	659.3	648.6	646.4
57.5°	578.8	583.3	575.3	564.1	563.4
60°	501.6	502.0	499.8	489.1	486.3
62.5°	435.7	432.8	431.6	426.1	422.6
65°	373.6	374.3	371.4	365.0	364.0
67.5°	323.5	322.9	317.8	313.9	311.6
70°	274.3	272.7	270.5	267.2	264.9
72.5°	230.5	230.5	228.7	227.7	223.8
75°	192.2	190.0	187.7	188.8	184.3
77.5°	155.6	153.3	151.5	149.3	148.2
80°	117.7	115.5	116.1	112.6	112.2
82.5°	81.7	81.7	80.7	77.8	78.4
85°	46.7	47.3	46.3	46.7	44.4
87.5°	17.0	17.4	18.6	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)