

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: P1050611

Luminaire Tested: 24PTR-40-PB1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40-PB1-L940-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

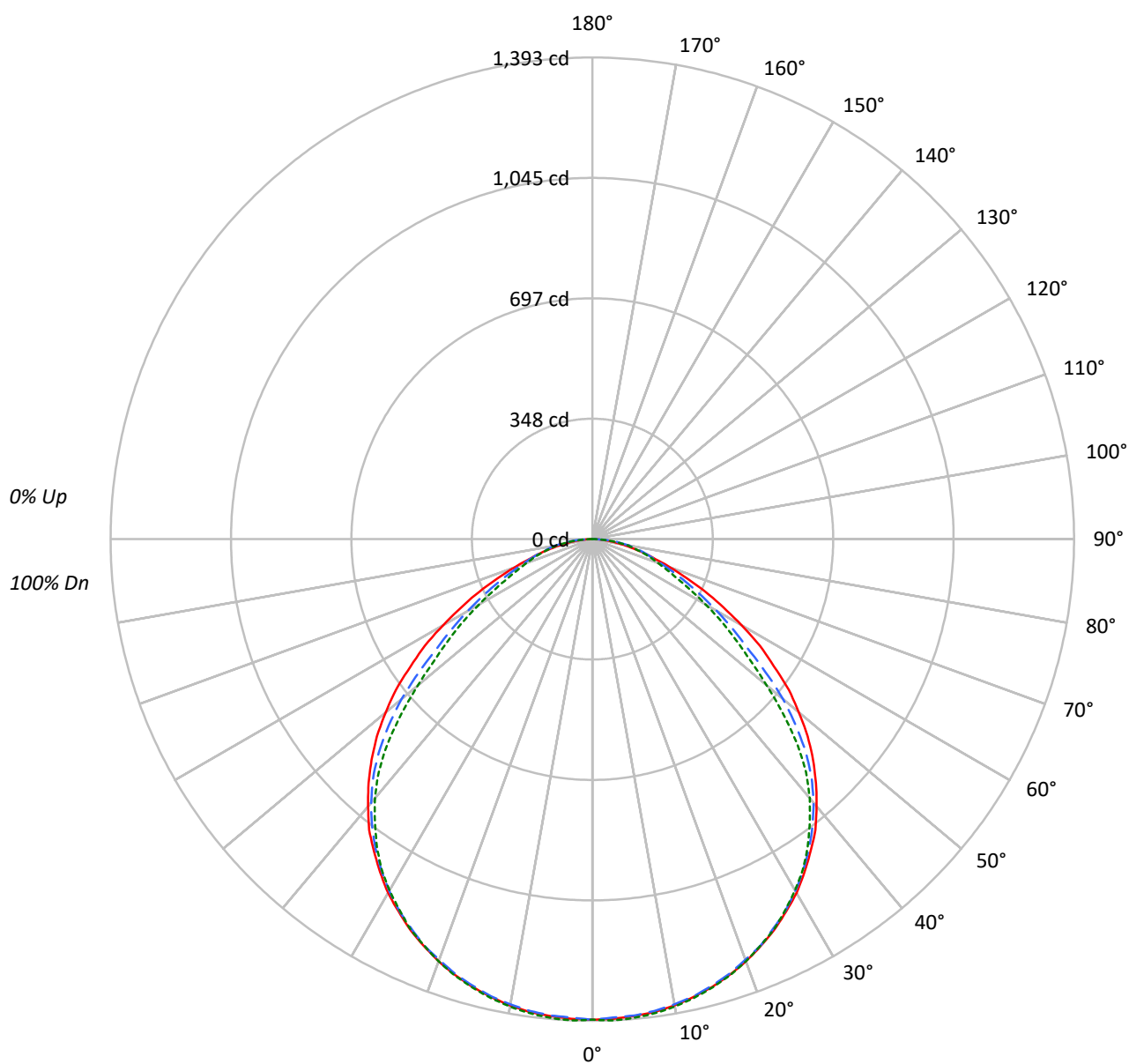
Lumens per Lamp: N/A
Luminaire Lumens: 3465.8 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1870	1870	1870
5°	1870	1868	1877
10°	1871	1866	1876
15°	1867	1862	1869
20°	1860	1853	1860
25°	1850	1843	1848
30°	1835	1825	1822
35°	1808	1794	1783
40°	1772	1748	1717
45°	1717	1662	1594
50°	1632	1506	1378
55°	1504	1279	1187
60°	1339	1118	1017
65°	1149	969	866
70°	948	854	793
75°	800	817	774
80°	676	834	796
85°	530	844	739

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1717 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.8
10°-20°	378.2	10.9
20°-30°	572.8	16.5
30°-40°	682.6	19.7
40°-50°	667.5	19.3
50°-60°	504.9	14.6
60°-70°	310.2	8.9
70°-80°	165.3	4.8
80°-90°	52.7	1.5
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°	1082.8	31.2
0°-40°	1765.3	50.9
0°-60°	2937.6	84.8
0°-90°	3465.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1385	1386	1383	1388	1390	132
15°	1340	1342	1337	1342	1342	378
25°	1246	1244	1241	1243	1244	574
35°	1101	1099	1092	1087	1086	689
45°	903	898	874	844	838	694
55°	641	609	545	515	506	574
65°	361	332	304	280	272	359
75°	154	156	157	152	149	165
85°	34	44	55	51	48	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.9	1389.9	1389.9	1389.9	1389.9
2.5°	1388.3	1389.9	1384.7	1391.7	1393.3
5°	1384.7	1386.5	1383.1	1388.3	1389.9
7.5°	1379.7	1379.7	1376.3	1381.3	1383.1
10°	1369.4	1369.4	1366.0	1371.1	1372.9
12.5°	1355.8	1355.8	1354.0	1357.4	1359.2
15°	1340.4	1342.0	1337.0	1342.0	1342.0
17.5°	1321.5	1319.9	1318.1	1321.5	1323.3
20°	1299.3	1299.3	1294.2	1297.7	1299.3
22.5°	1273.6	1273.6	1272.0	1273.6	1272.0
25°	1246.3	1244.5	1241.1	1242.9	1244.5
27.5°	1213.8	1213.8	1210.4	1210.4	1208.6
30°	1181.4	1179.6	1174.5	1171.1	1172.7
32.5°	1142.0	1140.3	1135.2	1131.8	1133.4
35°	1100.9	1099.3	1092.5	1087.3	1085.7
37.5°	1060.0	1054.8	1046.2	1039.4	1032.6
40°	1008.7	1003.5	995.0	979.6	977.8
42.5°	957.4	952.3	938.5	919.8	914.6
45°	902.6	897.6	873.5	844.5	837.6
47.5°	844.5	836.0	798.3	762.4	748.8
50°	779.7	764.2	719.7	673.6	658.2
52.5°	716.3	689.0	630.9	589.8	574.5
55°	641.1	608.6	545.4	514.6	506.0
57.5°	574.5	530.0	478.7	448.0	441.2
60°	497.5	456.4	415.5	388.0	377.8
62.5°	427.3	391.5	357.3	333.3	321.5
65°	360.8	331.7	304.4	280.4	271.9
67.5°	295.8	280.4	258.1	239.4	234.2
70°	241.0	232.4	217.2	208.6	201.7
72.5°	191.5	194.9	184.7	181.3	176.1
75°	153.8	155.6	157.2	152.2	148.8
77.5°	116.3	124.7	131.6	128.2	124.7
80°	87.2	95.7	107.7	102.7	102.7
82.5°	59.8	70.2	80.4	77.0	75.2
85°	34.3	44.5	54.7	51.3	47.9
87.5°	13.6	22.3	23.9	23.9	22.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)