

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: P1051073

Luminaire Tested: 24PTR-40-PW1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40-PW1-L940-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

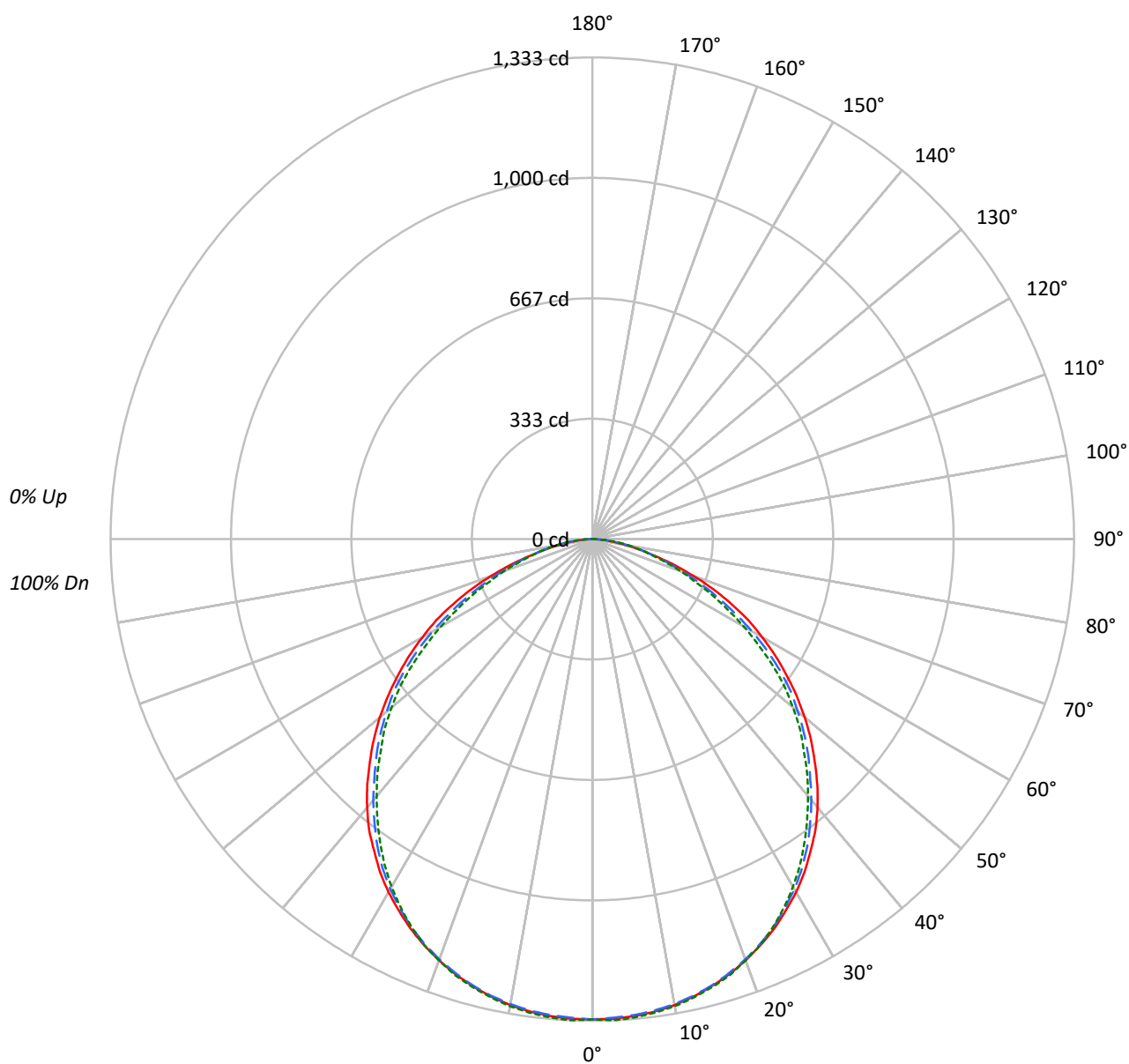
Lumens per Lamp: N/A
Luminaire Lumens: 3526.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1788	1788	1788
5°	1790	1786	1795
10°	1789	1785	1794
15°	1783	1781	1787
20°	1776	1772	1776
25°	1766	1759	1758
30°	1753	1738	1725
35°	1729	1703	1681
40°	1703	1656	1630
45°	1656	1607	1574
50°	1606	1553	1517
55°	1539	1487	1428
60°	1459	1373	1301
65°	1350	1226	1165
70°	1170	1067	1027
75°	934	913	888
80°	710	793	793
85°	525	676	676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1656 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.6
10°-20°	361.5	10.2
20°-30°	546.3	15.5
30°-40°	648.7	18.4
40°-50°	653.6	18.5
50°-60°	564.9	16.0
60°-70°	386.1	10.9
70°-80°	190.4	5.4
80°-90°	49.2	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°	1033.9	29.3
0°-40°	1682.6	47.7
0°-60°	2901.1	82.3
0°-90°	3526.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3526.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1325	1326	1322	1328	1329	126
15°	1280	1282	1278	1283	1283	361
25°	1190	1189	1185	1186	1184	548
35°	1053	1049	1037	1028	1024	659
45°	870	861	844	835	827	672
55°	656	654	634	615	609	587
65°	424	409	385	368	366	419
75°	180	178	176	176	171	196
85°	34	40	44	45	44	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.0	1329.0	1329.0	1329.0	1329.0
2.5°	1328.6	1329.0	1325.6	1331.5	1332.9
5°	1325.1	1325.6	1322.2	1327.6	1329.0
7.5°	1318.8	1319.7	1315.8	1321.1	1322.2
10°	1309.3	1309.9	1306.5	1311.8	1312.9
12.5°	1296.6	1297.0	1294.1	1298.9	1298.9
15°	1280.3	1281.8	1278.4	1282.8	1283.2
17.5°	1262.1	1262.6	1259.2	1264.0	1265.1
20°	1240.4	1240.4	1237.6	1241.5	1240.4
22.5°	1216.3	1216.3	1212.9	1214.8	1215.7
25°	1189.8	1188.7	1184.8	1185.8	1183.9
27.5°	1159.2	1159.2	1152.2	1152.2	1148.8
30°	1128.2	1125.7	1118.4	1113.9	1110.5
32.5°	1092.6	1089.2	1079.9	1072.0	1069.5
35°	1052.9	1049.3	1037.0	1027.7	1023.7
37.5°	1014.4	1006.5	990.3	981.0	976.5
40°	969.5	959.7	943.0	930.1	928.2
42.5°	921.4	913.5	891.8	882.4	880.0
45°	870.2	860.7	844.4	834.6	827.2
47.5°	819.9	812.9	794.3	782.5	780.0
50°	767.1	761.2	742.1	729.4	724.9
52.5°	712.5	708.6	692.3	676.0	670.7
55°	656.0	654.0	633.8	615.0	608.6
57.5°	600.4	597.8	572.6	551.0	545.1
60°	542.2	534.9	510.2	489.9	483.5
62.5°	487.1	471.3	444.7	428.9	421.6
65°	423.9	408.7	385.1	368.3	365.9
67.5°	362.0	343.7	325.5	315.1	307.2
70°	297.4	285.1	271.3	262.5	261.1
72.5°	237.3	228.5	221.5	216.2	211.7
75°	179.7	178.2	175.7	175.7	170.9
77.5°	132.1	135.5	137.4	136.9	138.0
80°	91.6	98.4	102.4	102.9	102.4
82.5°	58.2	66.0	72.5	73.4	74.4
85°	34.0	39.9	43.8	44.7	43.8
87.5°	15.2	19.1	20.2	21.1	20.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)