

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: P1050807

Luminaire Tested: 24PTR-30-PLG-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-30-PLG-L850-UNV-STD-W
Description: 3000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

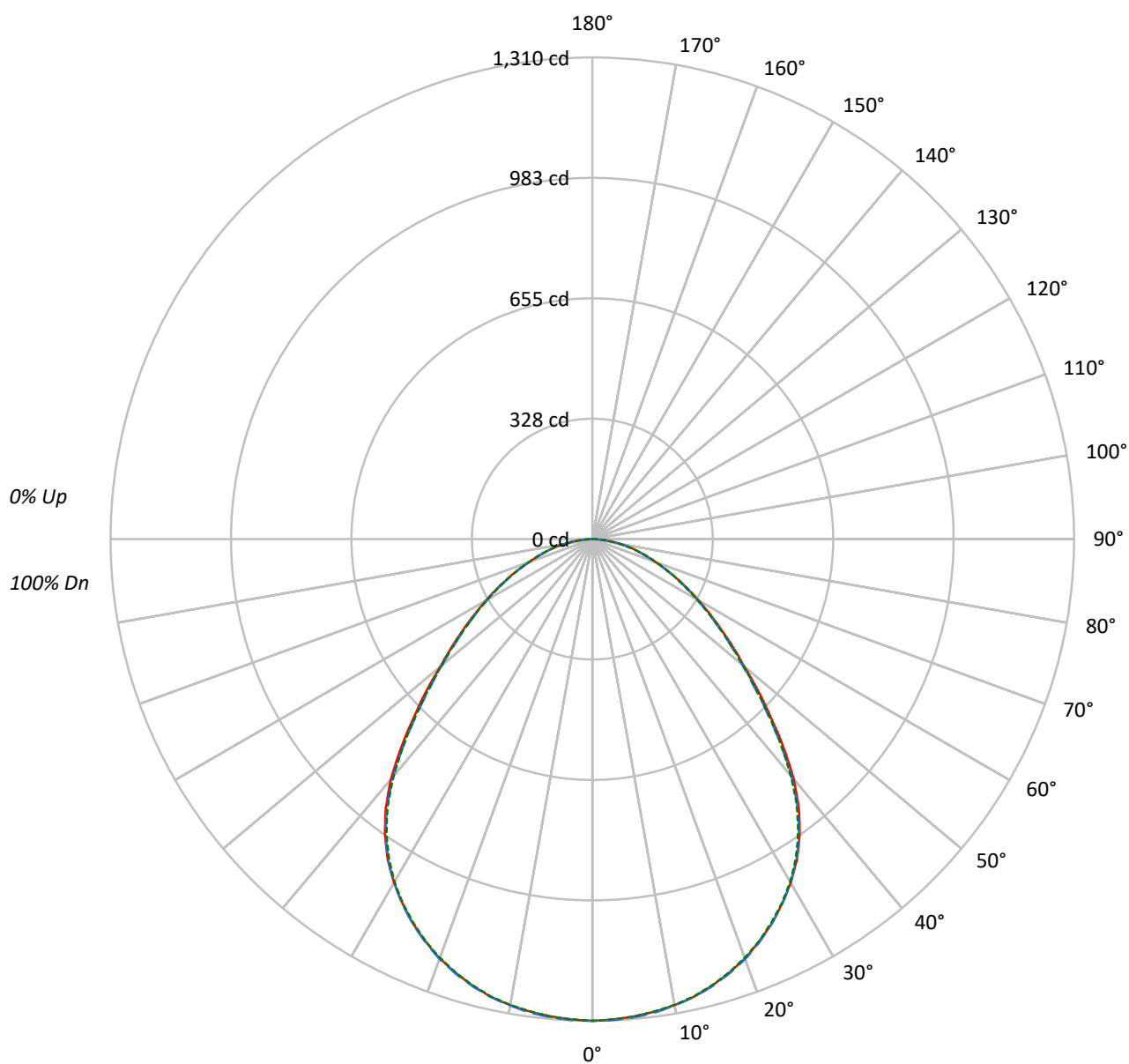
Lumens per Lamp: N/A
Luminaire Lumens: 2952.3 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1763	1763	1763
5°	1760	1763	1761
10°	1758	1760	1757
15°	1751	1754	1750
20°	1738	1740	1735
25°	1713	1715	1709
30°	1676	1676	1672
35°	1614	1610	1602
40°	1496	1480	1475
45°	1308	1286	1292
50°	1129	1115	1121
55°	1004	988	990
60°	898	886	886
65°	805	799	802
70°	724	717	724
75°	672	662	672
80°	627	620	598
85°	531	531	474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1308 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	4.2
10°-20°	355.0	12.0
20°-30°	531.1	18.0
30°-40°	608.5	20.6
40°-50°	526.3	17.8
50°-60°	380.9	12.9
60°-70°	250.9	8.5
70°-80°	136.6	4.6
80°-90°	39.1	1.3
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°	1010.1	34.2
0°-40°	1618.6	54.8
0°-60°	2525.7	85.6
0°-90°	2952.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1303	1306	1306	1306	1304	124
15°	1257	1258	1259	1261	1256	355
25°	1154	1154	1155	1156	1151	531
35°	983	982	980	979	976	611
45°	687	685	676	675	679	532
55°	428	426	421	418	422	385
65°	253	255	251	249	252	253
75°	129	129	127	127	129	138
85°	34	34	34	35	31	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1307.4	1310.2	1309.3	1310.2	1307.4
5°	1302.8	1305.6	1305.6	1305.6	1303.7
7.5°	1296.3	1298.1	1299.1	1300.0	1295.3
10°	1287.0	1288.8	1287.9	1289.8	1286.0
12.5°	1274.9	1274.9	1275.8	1277.7	1274.0
15°	1257.2	1258.2	1259.1	1260.9	1256.3
17.5°	1236.8	1237.7	1238.6	1239.6	1235.8
20°	1213.5	1213.5	1215.4	1216.3	1211.7
22.5°	1184.7	1184.7	1186.5	1189.3	1183.8
25°	1154.0	1154.0	1154.9	1155.9	1151.2
27.5°	1117.7	1117.7	1118.7	1121.5	1115.9
30°	1078.7	1077.8	1078.7	1079.6	1075.9
32.5°	1035.0	1034.0	1033.1	1034.0	1029.4
35°	982.9	982.0	980.1	979.2	975.5
37.5°	922.5	920.6	916.9	916.9	913.2
40°	851.8	847.1	842.5	840.6	839.7
42.5°	770.0	766.2	759.7	758.8	758.8
45°	687.2	685.3	676.0	675.1	678.8
47.5°	612.8	608.2	599.8	597.9	603.5
50°	539.3	540.3	532.8	530.0	535.6
52.5°	481.7	479.8	473.3	471.5	476.1
55°	427.8	425.9	421.2	418.5	422.2
57.5°	378.5	377.5	372.9	372.0	373.8
60°	333.8	332.9	329.2	328.3	329.2
62.5°	292.0	292.0	288.3	286.4	289.2
65°	252.9	254.8	251.1	249.2	252.0
67.5°	217.6	219.5	215.7	213.9	217.6
70°	184.1	186.0	182.3	180.4	184.1
72.5°	155.3	156.2	153.4	152.5	157.2
75°	129.3	129.3	127.4	127.4	129.3
77.5°	105.1	104.1	103.2	103.2	101.4
80°	80.9	80.0	80.0	80.0	77.2
82.5°	57.7	55.8	56.7	57.7	53.0
85°	34.4	34.4	34.4	35.3	30.7
87.5°	13.9	13.9	13.0	13.9	12.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)