

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: P1050104

Luminaire Tested: PTR-14-40-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-40-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

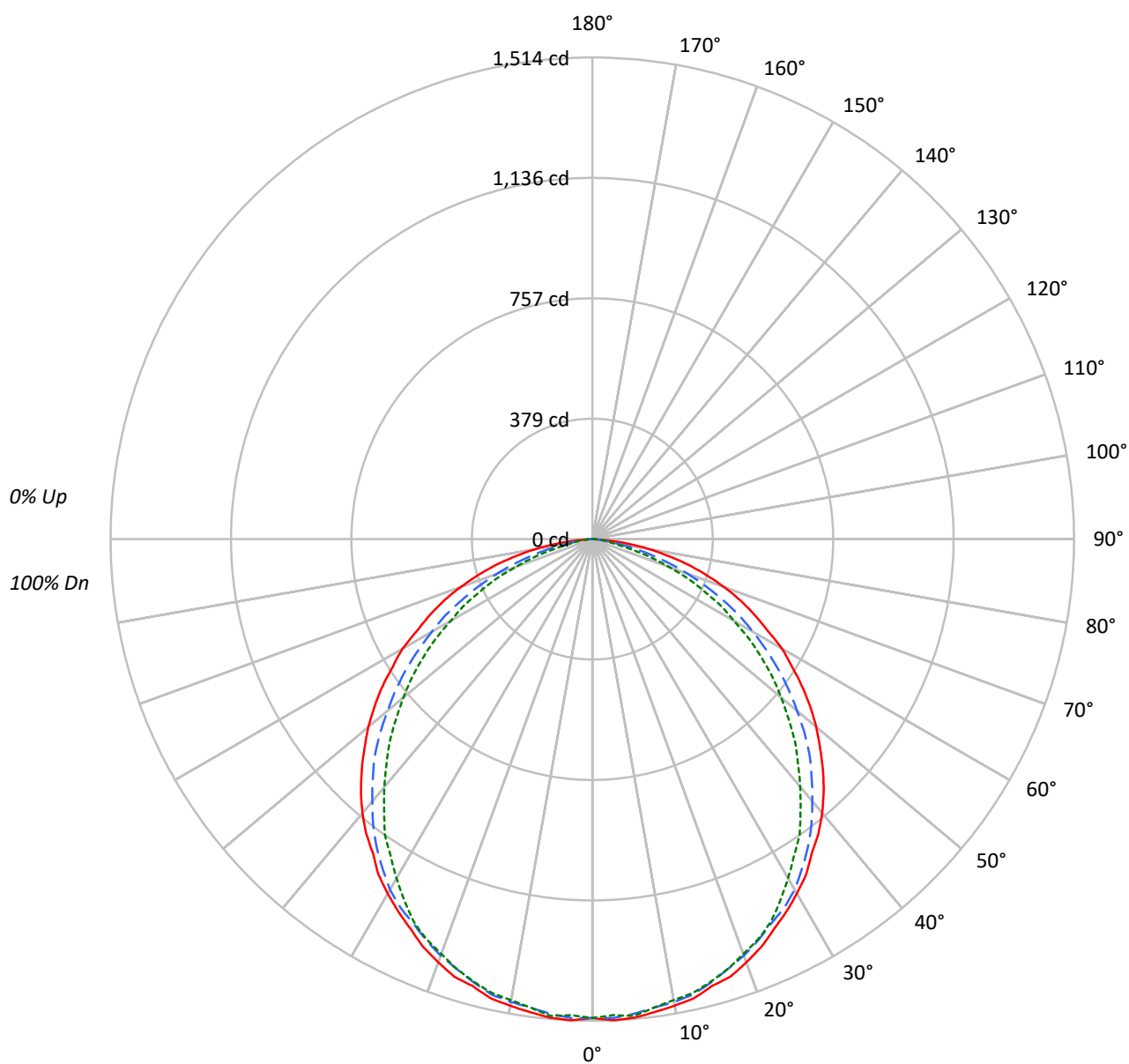
Lumens per Lamp: N/A
Luminaire Lumens: 4008.8 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.1
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	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4050	4050	4050
5°	4080	4046	4063
10°	4068	4036	4019
15°	4050	4018	4011
20°	4053	3989	3974
25°	4013	3955	3942
30°	3997	3952	3824
35°	3952	3881	3731
40°	3948	3778	3571
45°	3899	3681	3428
50°	3846	3516	3242
55°	3772	3352	3045
60°	3705	3136	2764
65°	3578	2877	2471
70°	3463	2504	2017
75°	3252	1975	1389
80°	2820	1195	834
85°	1883	858	803

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3899 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.6
10°-20°	408.2	10.2
20°-30°	616.6	15.4
30°-40°	733.2	18.3
40°-50°	743.6	18.5
50°-60°	645.7	16.1
60°-70°	458.4	11.4
70°-80°	219.1	5.5
80°-90°	41.5	1.0
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°	1167.5	29.1
0°-40°	1900.7	47.4
0°-60°	3289.9	82.1
0°-90°	4008.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1510	1505	1498	1501	1504	143
15°	1454	1458	1442	1440	1440	412
25°	1352	1350	1332	1337	1328	624
35°	1203	1201	1181	1141	1136	756
45°	1024	1016	967	916	901	790
55°	804	780	714	672	649	718
65°	562	520	452	403	388	557
75°	313	256	190	151	134	328
85°	61	32	28	27	26	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.0	1505.0	1505.0	1505.0	1505.0
2.5°	1514.0	1508.6	1506.8	1513.1	1497.8
5°	1510.4	1505.0	1497.8	1501.4	1504.1
7.5°	1499.6	1495.1	1485.3	1493.3	1485.3
10°	1488.9	1484.4	1477.2	1479.9	1470.9
12.5°	1478.1	1467.3	1465.6	1467.3	1461.1
15°	1453.9	1457.5	1442.2	1440.5	1439.6
17.5°	1442.2	1433.3	1417.1	1418.0	1416.3
20°	1415.4	1404.6	1392.9	1391.2	1387.6
22.5°	1387.6	1375.0	1364.3	1369.6	1361.6
25°	1351.7	1349.9	1332.0	1337.4	1327.5
27.5°	1320.3	1314.1	1306.0	1294.3	1280.0
30°	1286.3	1280.0	1271.9	1241.5	1230.7
32.5°	1250.4	1243.3	1227.1	1191.3	1179.6
35°	1202.9	1201.1	1181.4	1141.1	1135.7
37.5°	1167.1	1147.3	1131.2	1090.0	1074.7
40°	1124.0	1113.3	1075.6	1036.2	1016.5
42.5°	1076.5	1064.0	1021.0	978.8	957.3
45°	1024.5	1015.6	967.2	916.1	900.8
47.5°	970.8	962.7	905.3	856.0	836.3
50°	918.8	908.9	839.9	792.4	774.5
52.5°	862.3	846.2	778.0	731.4	714.4
55°	804.0	779.8	714.4	672.3	649.0
57.5°	742.2	719.8	647.2	603.3	584.4
60°	688.4	657.0	582.6	537.8	513.6
62.5°	619.4	592.5	521.7	468.8	457.1
65°	562.0	519.9	451.8	403.4	388.1
67.5°	503.8	454.5	385.4	336.1	328.1
70°	440.1	389.0	318.2	269.8	256.4
72.5°	375.6	325.4	256.4	205.3	197.2
75°	312.8	255.5	190.0	150.6	133.6
77.5°	244.7	192.7	133.6	92.3	81.6
80°	182.0	130.0	77.1	54.7	53.8
82.5°	119.2	75.3	41.2	42.1	40.3
85°	61.0	32.3	27.8	26.9	26.0
87.5°	11.7	12.5	13.4	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)