

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: P1050251

Luminaire Tested: PTR-14-40-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-40-PL1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

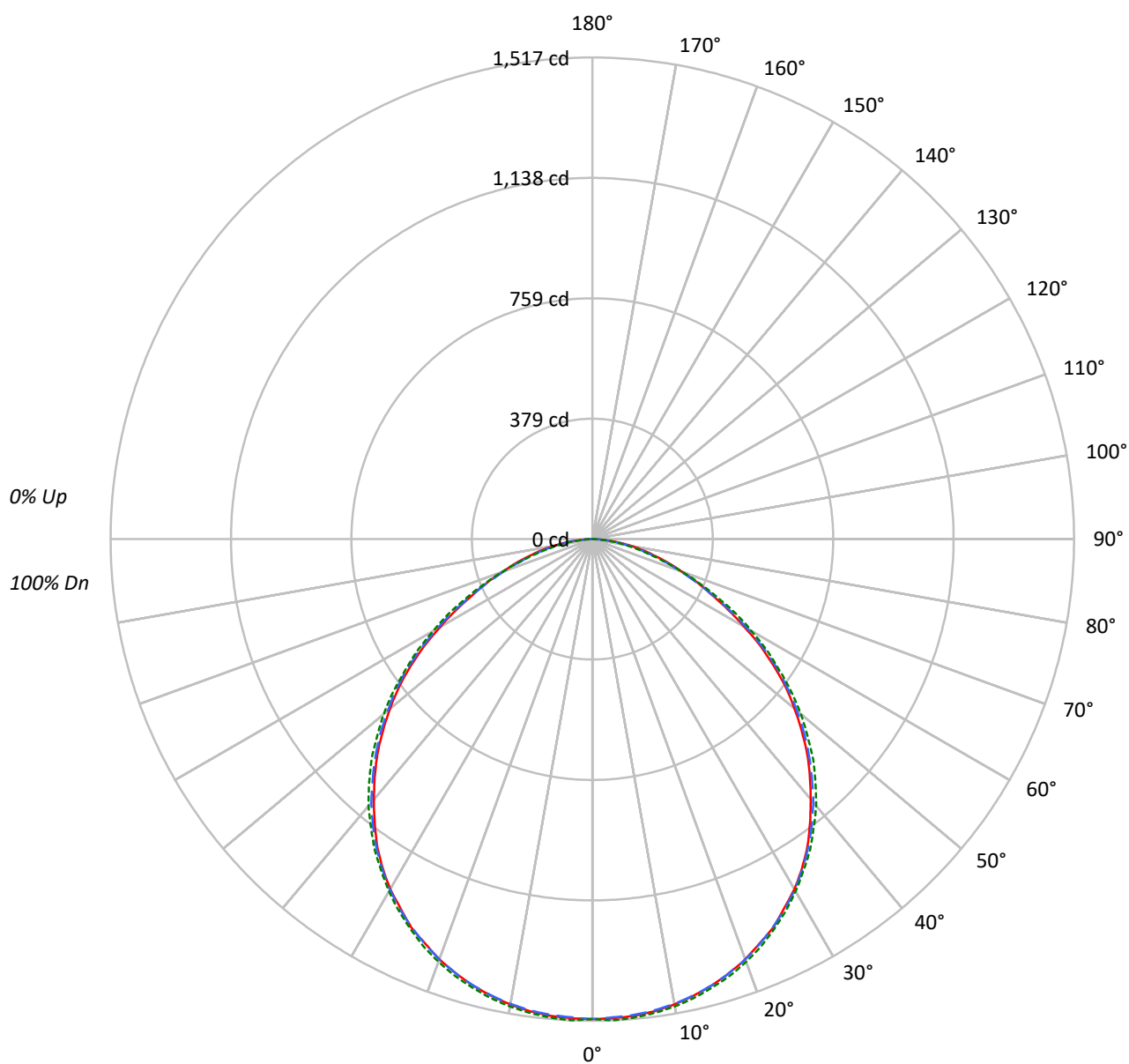
Lumens per Lamp: N/A
Luminaire Lumens: 3984.6 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4068	4068	4068
5°	4071	4064	4086
10°	4066	4062	4085
15°	4054	4052	4072
20°	4033	4033	4056
25°	4006	4001	4022
30°	3955	3961	3980
35°	3880	3895	3926
40°	3759	3803	3852
45°	3642	3672	3743
50°	3482	3520	3589
55°	3279	3332	3371
60°	2975	3038	3114
65°	2642	2670	2778
70°	2362	2314	2371
75°	2130	2008	1968
80°	1937	1798	1596
85°	1639	1488	1281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.6
10°-20°	411.3	10.3
20°-30°	622.1	15.6
30°-40°	741.5	18.6
40°-50°	745.6	18.7
50°-60°	632.8	15.9
60°-70°	421.3	10.6
70°-80°	210.4	5.3
80°-90°	56.3	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°	1176.7	29.5
0°-40°	1918.2	48.1
0°-60°	3296.6	82.7
0°-90°	3984.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1507	1508	1504	1511	1513	143
15°	1455	1457	1454	1461	1462	411
25°	1349	1349	1347	1354	1355	620
35°	1181	1182	1186	1194	1195	737
45°	957	959	965	978	984	736
55°	699	704	710	717	719	623
65°	415	418	419	426	436	416
75°	205	202	193	189	189	220
85°	53	52	48	45	42	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.6	1511.6	1511.6	1511.6	1511.6
2.5°	1510.4	1511.6	1507.6	1514.9	1516.7
5°	1507.2	1507.6	1504.3	1511.0	1512.7
7.5°	1499.8	1500.5	1497.0	1504.3	1505.3
10°	1488.0	1489.3	1486.4	1493.1	1494.8
12.5°	1473.0	1474.6	1471.8	1479.1	1480.3
15°	1455.1	1456.7	1454.5	1460.6	1461.8
17.5°	1433.1	1434.3	1433.1	1438.8	1442.0
20°	1408.5	1408.5	1408.5	1413.6	1416.4
22.5°	1377.7	1380.6	1379.4	1386.1	1388.9
25°	1349.2	1349.2	1347.4	1353.7	1354.7
27.5°	1309.4	1313.8	1313.4	1318.9	1320.1
30°	1272.9	1274.2	1274.8	1278.6	1280.9
32.5°	1228.8	1229.8	1231.6	1237.1	1237.7
35°	1181.1	1182.4	1185.6	1194.0	1195.2
37.5°	1125.8	1131.9	1134.8	1143.7	1144.7
40°	1070.2	1074.1	1082.7	1092.0	1096.5
42.5°	1013.7	1018.1	1023.2	1036.0	1040.1
45°	957.1	958.7	965.0	977.8	983.5
47.5°	894.4	899.5	905.0	916.2	919.6
50°	831.7	837.2	840.7	850.7	857.4
52.5°	768.4	773.5	777.4	783.5	790.2
55°	699.0	703.9	710.2	717.0	718.6
57.5°	628.4	633.9	638.0	645.1	652.4
60°	552.7	559.0	564.5	571.2	578.6
62.5°	482.3	485.0	490.7	501.8	512.4
65°	414.9	418.4	419.4	425.7	436.3
67.5°	359.0	359.0	353.9	356.1	367.9
70°	300.2	297.9	294.1	291.8	301.4
72.5°	252.6	249.7	241.4	237.5	242.6
75°	204.9	202.1	193.1	188.7	189.3
77.5°	164.6	160.2	152.8	145.1	143.5
80°	125.0	123.1	116.0	108.7	103.0
82.5°	88.5	84.7	80.6	76.1	71.6
85°	53.1	52.1	48.2	45.4	41.5
87.5°	21.8	21.8	20.8	19.5	18.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)