

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: P1050160

Luminaire Tested: PTR-14-50-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050160
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: PTR-14-50-PB1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

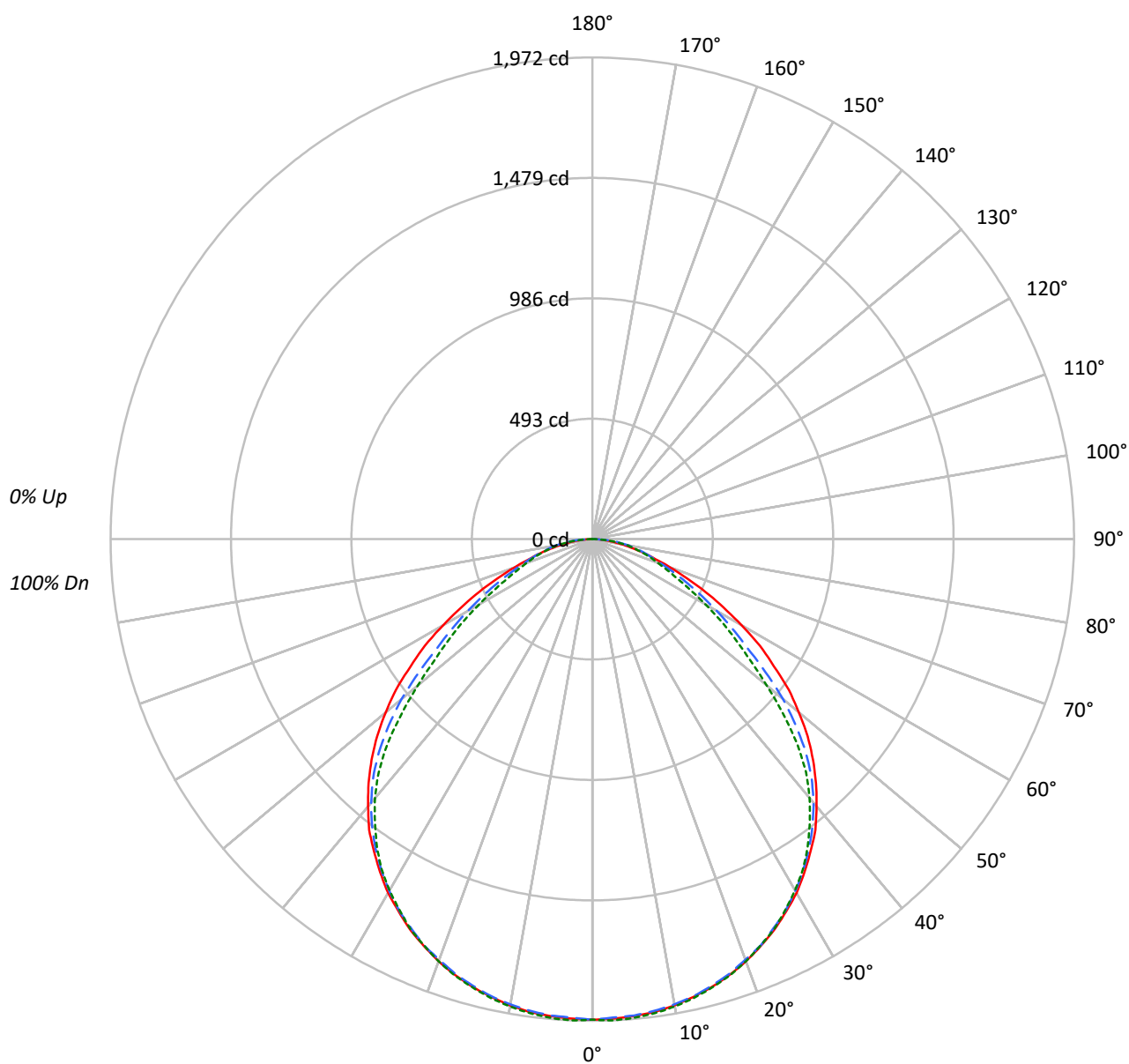
Lumens per Lamp: N/A
Luminaire Lumens: 4905.9 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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°	5295	5295	5295
5°	5295	5289	5315
10°	5297	5284	5310
15°	5286	5272	5292
20°	5267	5246	5267
25°	5238	5216	5231
30°	5196	5166	5158
35°	5119	5080	5049
40°	5016	4948	4862
45°	4862	4706	4512
50°	4620	4265	3900
55°	4258	3622	3360
60°	3791	3166	2878
65°	3252	2744	2451
70°	2685	2419	2247
75°	2263	2314	2190
80°	1914	2362	2252
85°	1497	2393	2093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4862 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	3.8
10°-20°	535.3	10.9
20°-30°	810.8	16.5
30°-40°	966.2	19.7
40°-50°	944.8	19.3
50°-60°	714.6	14.6
60°-70°	439.1	8.9
70°-80°	233.9	4.8
80°-90°	74.6	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°	1532.7	31.2
0°-40°	2498.9	50.9
0°-60°	4158.3	84.8
0°-90°	4905.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4905.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1960	1963	1958	1965	1968	186
15°	1897	1900	1892	1900	1900	535
25°	1764	1762	1757	1759	1762	812
35°	1558	1556	1546	1539	1537	975
45°	1278	1271	1236	1195	1186	983
55°	908	862	772	728	716	813
65°	511	470	431	397	385	508
75°	218	220	223	215	211	233
85°	48	63	78	73	68	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1967.5	1967.5	1967.5	1967.5	1967.5
2.5°	1965.2	1967.5	1960.1	1970.0	1972.3
5°	1960.1	1962.6	1957.8	1965.2	1967.5
7.5°	1953.0	1953.0	1948.1	1955.3	1957.8
10°	1938.5	1938.5	1933.7	1940.8	1943.3
12.5°	1919.2	1919.2	1916.6	1921.5	1924.0
15°	1897.3	1899.6	1892.5	1899.6	1899.6
17.5°	1870.7	1868.4	1865.8	1870.7	1873.2
20°	1839.2	1839.2	1832.0	1836.9	1839.2
22.5°	1802.8	1802.8	1800.5	1802.8	1800.5
25°	1764.2	1761.7	1756.8	1759.4	1761.7
27.5°	1718.2	1718.2	1713.4	1713.4	1710.8
30°	1672.2	1669.7	1662.6	1657.8	1660.0
32.5°	1616.6	1614.1	1606.9	1602.1	1604.4
35°	1558.4	1556.1	1546.5	1539.1	1536.8
37.5°	1500.5	1493.1	1480.9	1471.3	1461.6
40°	1427.8	1420.5	1408.5	1386.7	1384.1
42.5°	1355.2	1348.0	1328.5	1302.1	1294.7
45°	1277.7	1270.6	1236.5	1195.4	1185.7
47.5°	1195.4	1183.4	1130.1	1079.3	1059.9
50°	1103.6	1081.8	1018.8	953.5	931.6
52.5°	1014.0	975.3	893.0	834.8	813.3
55°	907.5	861.5	772.1	728.4	716.2
57.5°	813.3	750.2	677.6	634.1	624.5
60°	704.3	646.1	588.2	549.3	534.8
62.5°	604.9	554.1	505.8	471.8	455.0
65°	510.7	469.5	430.9	396.8	384.9
67.5°	418.7	396.8	365.3	338.9	331.6
70°	341.2	329.0	307.4	295.2	285.6
72.5°	271.1	275.9	261.4	256.6	249.2
75°	217.7	220.3	222.6	215.4	210.6
77.5°	164.6	176.6	186.2	181.4	176.6
80°	123.5	135.4	152.4	145.3	145.3
82.5°	84.6	99.3	113.8	109.0	106.5
85°	48.5	63.0	77.5	72.7	67.8
87.5°	19.3	31.5	33.8	33.8	31.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)