

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: P1050405

Luminaire Tested: PTR-14-50-PR1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PR1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

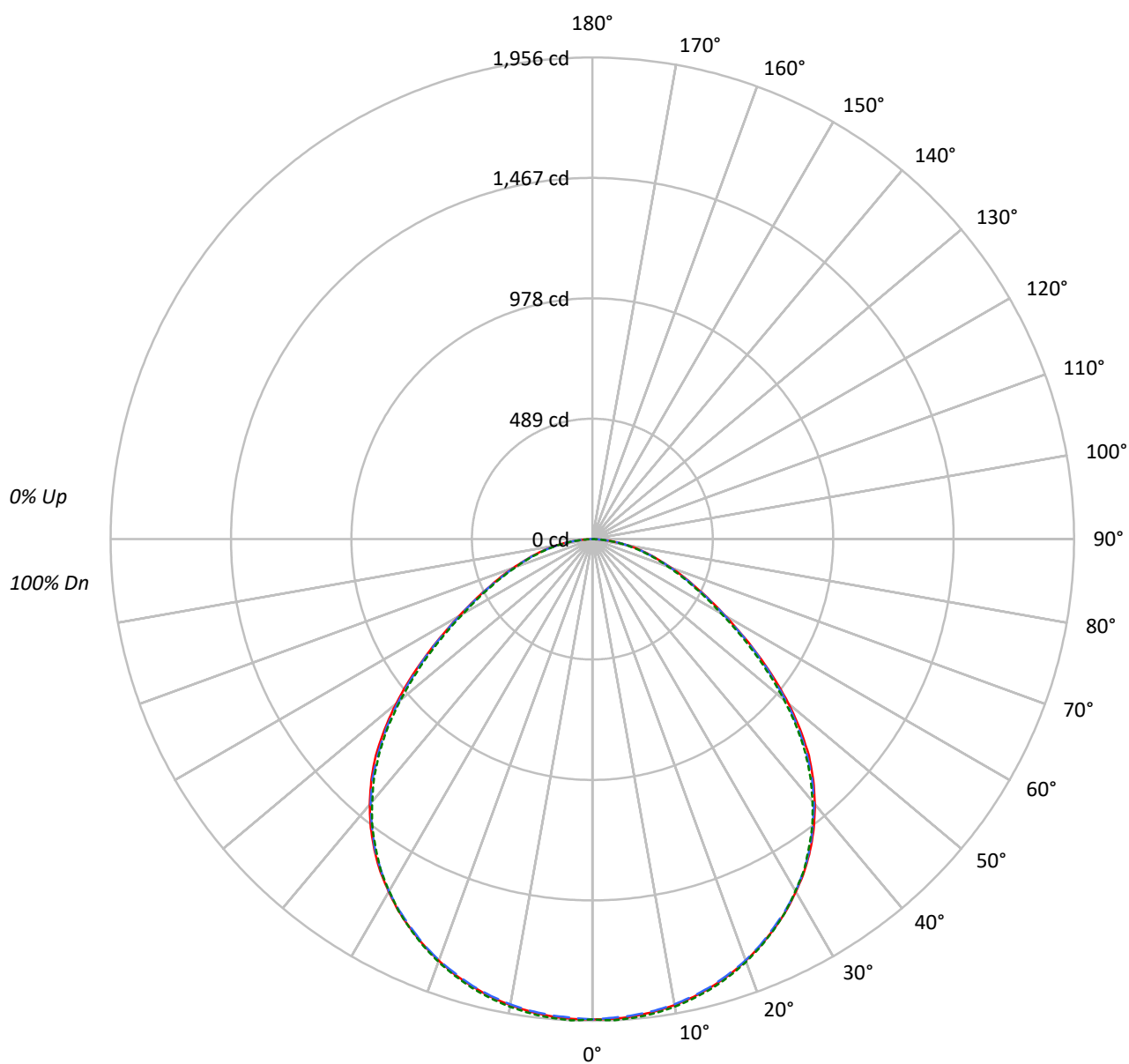
Lumens per Lamp: N/A
Luminaire Lumens: 4933.2 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5249	5249	5249
5°	5254	5242	5271
10°	5250	5241	5269
15°	5240	5232	5257
20°	5218	5211	5232
25°	5184	5171	5190
30°	5138	5131	5125
35°	5067	5055	5034
40°	4939	4919	4885
45°	4733	4680	4646
50°	4355	4306	4253
55°	3854	3838	3763
60°	3350	3337	3247
65°	2952	2934	2876
70°	2678	2640	2586
75°	2480	2421	2377
80°	2264	2232	2157
85°	1788	1772	1701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4733 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	3.8
10°-20°	531.1	10.8
20°-30°	804.6	16.3
30°-40°	960.5	19.5
40°-50°	944.6	19.1
50°-60°	730.1	14.8
60°-70°	460.4	9.3
70°-80°	249.0	5.0
80°-90°	68.0	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°	1520.7	30.8
0°-40°	2481.2	50.3
0°-60°	4155.8	84.2
0°-90°	4933.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1945	1946	1941	1949	1951	185
15°	1881	1881	1878	1884	1887	531
25°	1746	1747	1742	1747	1748	805
35°	1542	1543	1539	1537	1532	963
45°	1244	1239	1230	1220	1221	952
55°	822	828	818	805	802	737
65°	464	464	461	453	452	466
75°	238	236	233	234	229	253
85°	58	59	57	58	55	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.6	1950.6	1950.6	1950.6	1950.6
2.5°	1949.9	1950.6	1945.1	1954.2	1956.2
5°	1945.1	1945.8	1940.7	1949.1	1951.4
7.5°	1935.1	1936.7	1931.8	1940.2	1942.3
10°	1921.2	1922.7	1917.9	1926.3	1928.3
12.5°	1903.9	1904.4	1900.3	1908.0	1910.0
15°	1880.8	1881.3	1878.0	1884.1	1886.9
17.5°	1854.1	1854.9	1850.0	1857.7	1858.9
20°	1822.1	1822.6	1819.8	1826.2	1826.9
22.5°	1786.3	1787.8	1783.5	1789.1	1789.8
25°	1745.9	1747.2	1741.6	1747.2	1747.9
27.5°	1703.2	1703.7	1698.9	1703.2	1702.5
30°	1653.4	1657.8	1651.4	1649.9	1649.4
32.5°	1601.9	1602.4	1596.3	1594.8	1597.6
35°	1542.4	1542.9	1538.9	1536.8	1532.5
37.5°	1477.4	1477.4	1469.5	1468.3	1467.5
40°	1406.0	1405.3	1400.4	1395.6	1390.5
42.5°	1328.3	1329.8	1319.9	1311.5	1310.3
45°	1243.7	1238.9	1229.7	1220.1	1220.8
47.5°	1143.9	1145.1	1132.7	1124.8	1122.8
50°	1040.2	1040.2	1028.5	1020.2	1015.8
52.5°	932.0	932.8	921.6	910.4	908.1
55°	821.5	828.4	818.0	804.7	802.0
57.5°	718.1	723.7	713.8	699.8	699.1
60°	622.4	622.9	620.1	606.9	603.3
62.5°	540.6	537.0	535.5	528.6	524.3
65°	463.6	464.4	460.8	452.9	451.7
67.5°	401.4	400.6	394.2	389.4	386.6
70°	340.4	338.4	335.6	331.5	328.7
72.5°	286.0	286.0	283.7	282.5	277.6
75°	238.5	235.7	232.9	234.2	228.6
77.5°	193.1	190.3	188.0	185.2	183.9
80°	146.1	143.3	144.0	139.7	139.2
82.5°	101.4	101.4	100.1	96.5	97.3
85°	57.9	58.7	57.4	57.9	55.1
87.5°	21.1	21.6	23.1	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)