

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: P1050209

Luminaire Tested: PTR-14-50-PC3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PC3-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

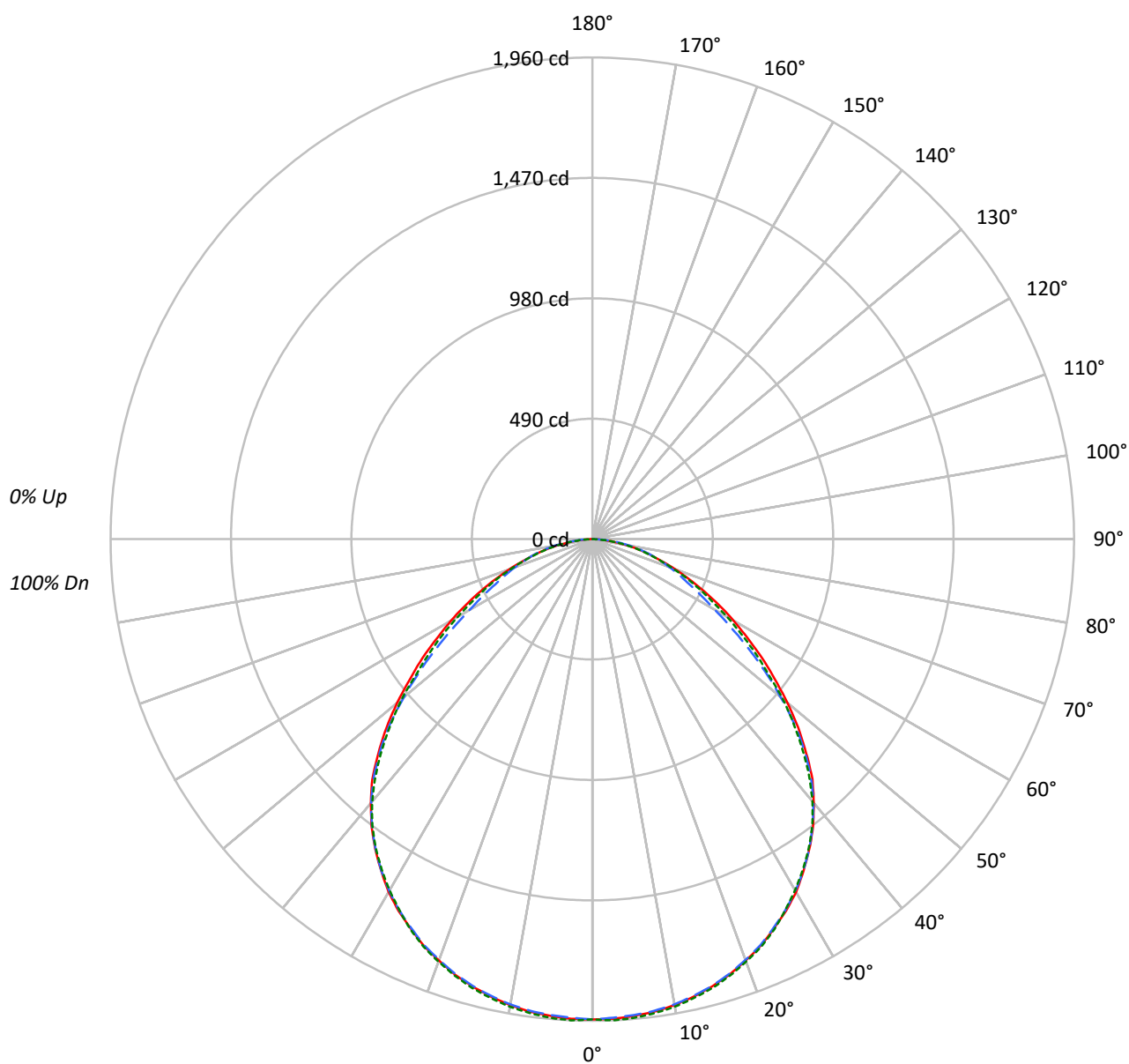
Lumens per Lamp: N/A
Luminaire Lumens: 4928.1 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	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	46	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	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5260	5260	5260
5°	5262	5252	5282
10°	5261	5252	5280
15°	5249	5243	5267
20°	5225	5217	5240
25°	5190	5182	5202
30°	5151	5134	5125
35°	5058	5053	5044
40°	4924	4917	4894
45°	4683	4648	4601
50°	4335	4189	4236
55°	3955	3635	3798
60°	3567	3101	3401
65°	3188	2774	3059
70°	2828	2624	2750
75°	2502	2543	2451
80°	2157	2428	2145
85°	1615	1920	1615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4693 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	3.8
10°-20°	532.2	10.8
20°-30°	805.7	16.3
30°-40°	960.6	19.5
40°-50°	938.6	19.0
50°-60°	717.7	14.6
60°-70°	460.8	9.4
70°-80°	256.4	5.2
80°-90°	70.8	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°	1523.3	30.9
0°-40°	2483.9	50.4
0°-60°	4140.2	84.0
0°-90°	4928.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4928.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1948	1949	1944	1954	1956	185
15°	1884	1886	1882	1888	1890	532
25°	1748	1750	1745	1751	1752	806
35°	1540	1541	1538	1537	1535	962
45°	1230	1233	1221	1219	1209	947
55°	843	814	775	784	810	754
65°	501	462	436	450	480	499
75°	241	243	245	241	236	257
85°	52	62	62	60	52	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1954.7	1954.7	1954.7	1954.7	1954.7
2.5°	1953.5	1954.2	1949.1	1957.5	1960.3
5°	1947.9	1949.1	1944.3	1953.5	1955.5
7.5°	1939.5	1940.8	1935.9	1945.1	1945.8
10°	1925.5	1926.3	1922.0	1931.1	1932.4
12.5°	1906.7	1908.7	1903.9	1912.3	1912.8
15°	1884.1	1885.6	1882.1	1888.4	1890.5
17.5°	1857.7	1858.4	1854.9	1861.8	1862.5
20°	1824.7	1824.7	1821.9	1829.7	1829.7
22.5°	1791.1	1789.1	1788.3	1791.1	1795.5
25°	1747.9	1750.0	1745.2	1750.7	1752.0
27.5°	1706.0	1706.0	1701.7	1704.5	1701.0
30°	1657.8	1655.0	1652.2	1652.7	1649.4
32.5°	1599.6	1599.6	1598.3	1598.3	1594.0
35°	1539.6	1540.9	1538.1	1537.4	1535.3
37.5°	1475.1	1477.4	1472.3	1471.1	1469.5
40°	1401.7	1401.7	1399.7	1396.9	1393.3
42.5°	1325.5	1325.5	1316.6	1309.5	1304.7
45°	1230.5	1233.3	1221.4	1218.6	1208.9
47.5°	1136.0	1134.0	1118.0	1115.9	1110.3
50°	1035.4	1023.5	1000.6	1006.7	1011.8
52.5°	934.8	920.1	886.5	893.4	901.8
55°	843.1	813.9	774.8	784.4	809.6
57.5°	747.3	708.2	669.1	687.4	718.6
60°	662.8	618.8	576.1	595.7	632.0
62.5°	581.7	535.0	500.7	519.5	550.2
65°	500.7	462.1	435.7	450.1	480.4
67.5°	426.5	400.6	382.6	389.4	413.8
70°	359.4	343.2	333.5	335.6	349.5
72.5°	295.7	291.6	288.1	288.1	289.3
75°	240.6	242.6	244.6	241.3	235.7
77.5°	189.5	196.4	201.4	194.3	187.5
80°	139.2	150.4	156.7	148.9	138.4
82.5°	95.0	107.7	109.7	104.9	93.0
85°	52.3	61.5	62.2	60.2	52.3
87.5°	19.6	23.1	25.1	23.1	20.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)