

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: P1050402

Luminaire Tested: PTR-14-50-PR1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050402
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-L830-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

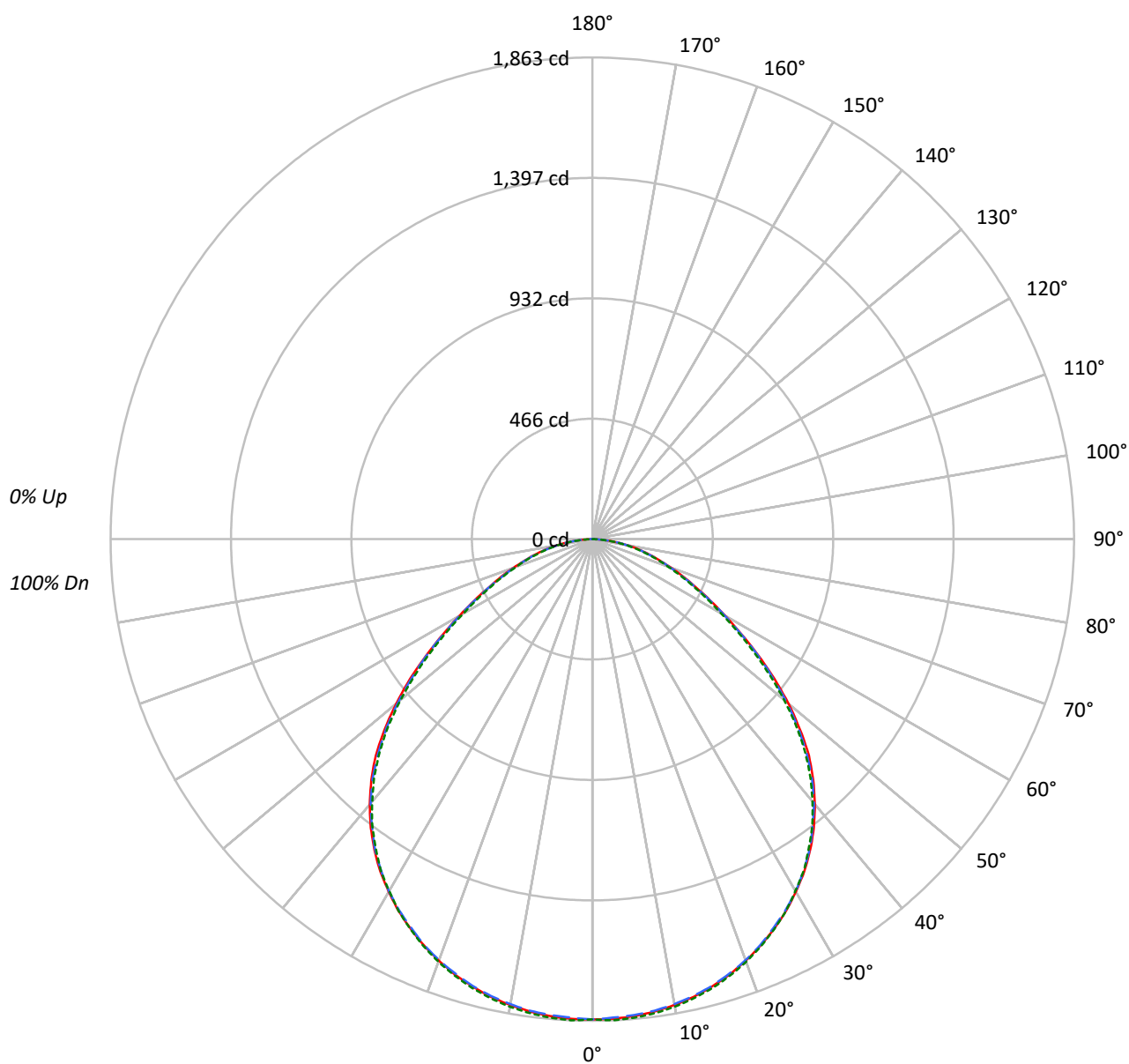
Lumens per Lamp: N/A
Luminaire Lumens: 4698.3 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4999	4999	4999
5°	5004	4993	5020
10°	5000	4991	5018
15°	4990	4983	5006
20°	4969	4963	4983
25°	4937	4925	4943
30°	4893	4887	4881
35°	4826	4815	4795
40°	4704	4685	4652
45°	4508	4457	4425
50°	4147	4101	4050
55°	3671	3655	3583
60°	3190	3178	3092
65°	2811	2795	2739
70°	2551	2515	2463
75°	2362	2306	2263
80°	2156	2126	2055
85°	1704	1689	1621

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	3.8
10°-20°	505.8	10.8
20°-30°	766.3	16.3
30°-40°	914.7	19.5
40°-50°	899.6	19.1
50°-60°	695.3	14.8
60°-70°	438.4	9.3
70°-80°	237.1	5.0
80°-90°	64.8	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°	1448.3	30.8
0°-40°	2363.0	50.3
0°-60°	3957.9	84.2
0°-90°	4698.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1858	1858	1858	1858	1858	
5°	1852	1853	1848	1856	1858	176
15°	1791	1792	1789	1794	1797	506
25°	1663	1664	1659	1664	1665	766
35°	1469	1470	1466	1464	1460	917
45°	1184	1180	1171	1162	1163	907
55°	782	789	779	766	764	702
65°	442	442	439	431	430	444
75°	227	224	222	223	218	241
85°	55	56	55	55	52	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	1857.0	1857.8	1852.4	1861.1	1863.1
5°	1852.4	1853.2	1848.3	1856.3	1858.5
7.5°	1843.0	1844.4	1839.9	1847.8	1849.8
10°	1829.7	1831.1	1826.5	1834.5	1836.5
12.5°	1813.2	1813.7	1809.9	1817.1	1819.0
15°	1791.2	1791.7	1788.6	1794.4	1797.0
17.5°	1765.8	1766.5	1762.0	1769.2	1770.4
20°	1735.3	1735.8	1733.2	1739.2	1739.9
22.5°	1701.2	1702.7	1698.6	1703.9	1704.6
25°	1662.8	1664.0	1658.6	1664.0	1664.7
27.5°	1622.1	1622.6	1618.0	1622.1	1621.4
30°	1574.7	1578.8	1572.8	1571.3	1570.8
32.5°	1525.6	1526.1	1520.3	1518.8	1521.5
35°	1469.0	1469.5	1465.6	1463.7	1459.5
37.5°	1407.0	1407.0	1399.5	1398.3	1397.6
40°	1339.1	1338.3	1333.7	1329.1	1324.3
42.5°	1265.0	1266.5	1257.1	1249.1	1247.9
45°	1184.5	1179.9	1171.2	1162.0	1162.7
47.5°	1089.4	1090.6	1078.8	1071.3	1069.3
50°	990.7	990.7	979.6	971.6	967.5
52.5°	887.6	888.4	877.7	867.1	864.9
55°	782.4	788.9	779.0	766.4	763.8
57.5°	683.9	689.2	679.8	666.5	665.8
60°	592.7	593.2	590.5	578.0	574.6
62.5°	514.8	511.4	510.0	503.4	499.3
65°	441.5	442.2	438.9	431.4	430.1
67.5°	382.2	381.5	375.5	370.9	368.2
70°	324.2	322.2	319.6	315.7	313.1
72.5°	272.4	272.4	270.2	269.0	264.4
75°	227.2	224.5	221.8	223.1	217.7
77.5°	183.9	181.2	179.0	176.4	175.2
80°	139.1	136.4	137.2	133.1	132.6
82.5°	96.5	96.5	95.3	91.9	92.7
85°	55.2	55.9	54.7	55.2	52.5
87.5°	20.1	20.6	22.0	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)