

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: P1050657

Luminaire Tested: 24PTR-50-PC3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050657
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: 24PTR-50-PC3-L850-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

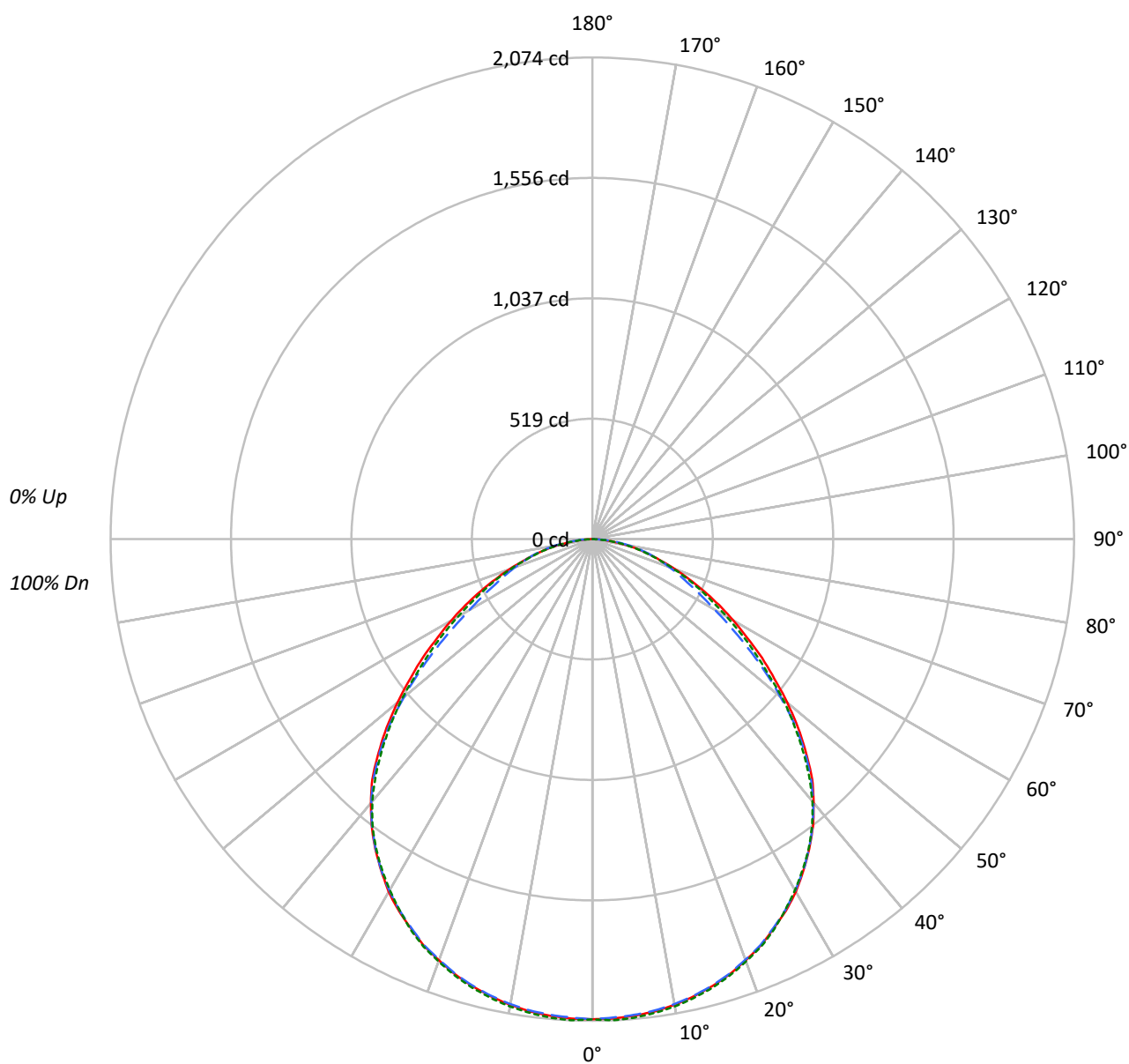
Lumens per Lamp: N/A
Luminaire Lumens: 5212.8 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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°	2782	2782	2782
5°	2783	2778	2794
10°	2783	2778	2793
15°	2776	2773	2785
20°	2764	2759	2771
25°	2745	2741	2751
30°	2724	2715	2711
35°	2675	2672	2667
40°	2604	2600	2589
45°	2477	2458	2433
50°	2292	2215	2240
55°	2092	1922	2009
60°	1886	1640	1799
65°	1686	1467	1618
70°	1496	1388	1454
75°	1323	1345	1297
80°	1141	1285	1134
85°	855	1016	855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2482 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	3.8
10°-20°	562.9	10.8
20°-30°	852.2	16.3
30°-40°	1016.1	19.5
40°-50°	992.8	19.0
50°-60°	759.2	14.6
60°-70°	487.4	9.4
70°-80°	271.2	5.2
80°-90°	74.9	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°	1611.3	30.9
0°-40°	2627.3	50.4
0°-60°	4379.3	84.0
0°-90°	5212.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5212.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2068	2068	2068	2068	2068	
5°	2060	2062	2057	2066	2068	196
15°	1993	1995	1991	1998	2000	562
25°	1849	1851	1846	1852	1853	853
35°	1629	1630	1627	1626	1624	1017
45°	1302	1304	1292	1289	1279	1002
55°	892	861	820	830	856	797
65°	530	489	461	476	508	528
75°	254	257	259	255	249	272
85°	55	65	66	64	55	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2067.6	2067.6	2067.6	2067.6	2067.6
2.5°	2066.3	2067.1	2061.7	2070.6	2073.5
5°	2060.4	2061.7	2056.6	2066.3	2068.4
7.5°	2051.5	2052.9	2047.8	2057.4	2058.2
10°	2036.7	2037.5	2033.0	2042.6	2044.0
12.5°	2016.9	2019.0	2013.9	2022.8	2023.3
15°	1992.9	1994.6	1990.8	1997.5	1999.7
17.5°	1965.0	1965.8	1962.0	1969.3	1970.1
20°	1930.1	1930.1	1927.1	1935.4	1935.4
22.5°	1894.6	1892.4	1891.6	1894.6	1899.2
25°	1848.9	1851.1	1846.0	1851.9	1853.2
27.5°	1804.6	1804.6	1800.0	1803.0	1799.2
30°	1753.5	1750.6	1747.6	1748.2	1744.7
32.5°	1692.0	1692.0	1690.7	1690.7	1686.1
35°	1628.6	1629.9	1627.0	1626.2	1624.0
37.5°	1560.3	1562.8	1557.4	1556.0	1554.4
40°	1482.7	1482.7	1480.5	1477.6	1473.8
42.5°	1402.1	1402.1	1392.7	1385.1	1380.0
45°	1301.6	1304.5	1291.9	1288.9	1278.7
47.5°	1201.6	1199.5	1182.5	1180.4	1174.5
50°	1095.2	1082.6	1058.4	1064.9	1070.2
52.5°	988.8	973.2	937.8	945.0	953.9
55°	891.8	860.9	819.5	829.7	856.3
57.5°	790.5	749.1	707.8	727.1	760.1
60°	701.0	654.6	609.4	630.1	668.5
62.5°	615.3	565.9	529.6	549.5	582.0
65°	529.6	488.8	460.8	476.1	508.1
67.5°	451.1	423.7	404.7	411.9	437.7
70°	380.2	363.0	352.8	355.0	369.7
72.5°	312.8	308.5	304.7	304.7	306.0
75°	254.5	256.6	258.8	255.3	249.4
77.5°	200.4	207.7	213.1	205.6	198.3
80°	147.2	159.1	165.8	157.5	146.4
82.5°	100.5	113.9	116.1	111.0	98.3
85°	55.4	65.0	65.8	63.7	55.4
87.5°	20.7	24.5	26.6	24.5	21.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)