

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: P1051031

Luminaire Tested: 24PTR-50-PW1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PW1-L840-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

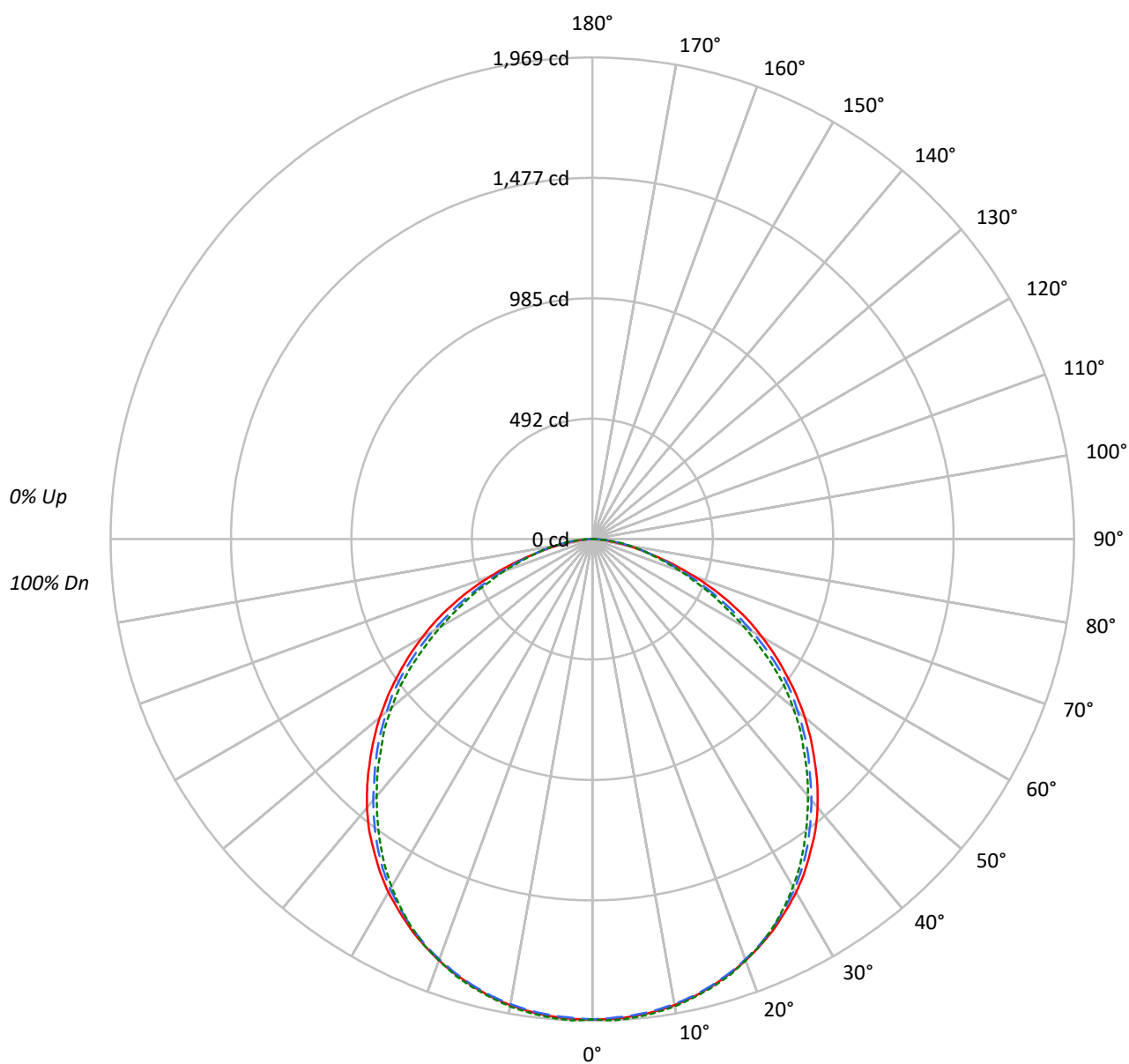
Lumens per Lamp: N/A
Luminaire Lumens: 5210.9 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2642	2642	2642
5°	2644	2638	2652
10°	2643	2637	2650
15°	2635	2631	2641
20°	2624	2618	2624
25°	2610	2599	2597
30°	2590	2567	2549
35°	2555	2517	2484
40°	2516	2447	2409
45°	2446	2374	2326
50°	2372	2295	2242
55°	2274	2197	2109
60°	2156	2028	1922
65°	1994	1811	1721
70°	1729	1577	1517
75°	1380	1350	1313
80°	1049	1172	1172
85°	775	1000	1000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	3.6
10°-20°	534.1	10.2
20°-30°	807.2	15.5
30°-40°	958.5	18.4
40°-50°	965.6	18.5
50°-60°	834.7	16.0
60°-70°	570.5	10.9
70°-80°	281.3	5.4
80°-90°	72.8	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°	1527.5	29.3
0°-40°	2486.0	47.7
0°-60°	4286.3	82.3
0°-90°	5210.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5210.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1958	1958	1954	1961	1964	186
15°	1892	1894	1889	1895	1896	534
25°	1758	1756	1750	1752	1749	810
35°	1556	1550	1532	1518	1512	974
45°	1286	1272	1248	1233	1222	992
55°	969	966	936	909	899	867
65°	626	604	569	544	541	618
75°	265	263	260	260	252	289
85°	50	59	65	66	65	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.5	1963.5	1963.5	1963.5	1963.5
2.5°	1963.0	1963.5	1958.5	1967.2	1969.3
5°	1957.7	1958.5	1953.5	1961.4	1963.5
7.5°	1948.5	1949.8	1944.0	1951.9	1953.5
10°	1934.5	1935.2	1930.2	1938.2	1939.7
12.5°	1915.7	1916.2	1912.0	1919.1	1919.1
15°	1891.6	1893.7	1888.7	1895.3	1895.9
17.5°	1864.7	1865.4	1860.4	1867.6	1869.1
20°	1832.7	1832.7	1828.4	1834.3	1832.7
22.5°	1797.0	1797.0	1792.0	1794.9	1796.2
25°	1757.8	1756.3	1750.4	1752.0	1749.1
27.5°	1712.6	1712.6	1702.3	1702.3	1697.3
30°	1666.9	1663.2	1652.4	1645.8	1640.7
32.5°	1614.3	1609.3	1595.5	1583.9	1580.2
35°	1555.6	1550.3	1532.1	1518.3	1512.5
37.5°	1498.8	1487.1	1463.1	1449.3	1442.7
40°	1432.4	1417.9	1393.3	1374.2	1371.3
42.5°	1361.3	1349.6	1317.7	1303.6	1300.2
45°	1285.7	1271.7	1247.6	1233.1	1222.2
47.5°	1211.4	1201.1	1173.6	1156.1	1152.4
50°	1133.4	1124.7	1096.4	1077.6	1071.0
52.5°	1052.8	1046.9	1022.9	998.8	990.9
55°	969.2	966.3	936.4	908.7	899.1
57.5°	887.0	883.3	846.0	814.0	805.3
60°	801.1	790.2	753.7	723.9	714.3
62.5°	719.6	696.4	657.0	633.7	622.9
65°	626.3	603.8	568.9	544.1	540.7
67.5°	534.8	507.9	480.9	465.6	453.9
70°	439.4	421.2	400.8	387.8	385.7
72.5°	350.6	337.6	327.3	319.4	312.8
75°	265.4	263.3	259.6	259.6	252.5
77.5°	195.1	200.1	203.0	202.2	203.8
80°	135.4	145.4	151.2	152.0	151.2
82.5°	85.9	97.6	107.1	108.4	110.0
85°	50.2	59.0	64.8	66.1	64.8
87.5°	22.5	28.3	29.9	31.2	29.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)