

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: P1050789

Luminaire Tested: 24PTR-50-PLG-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PLG-L835-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

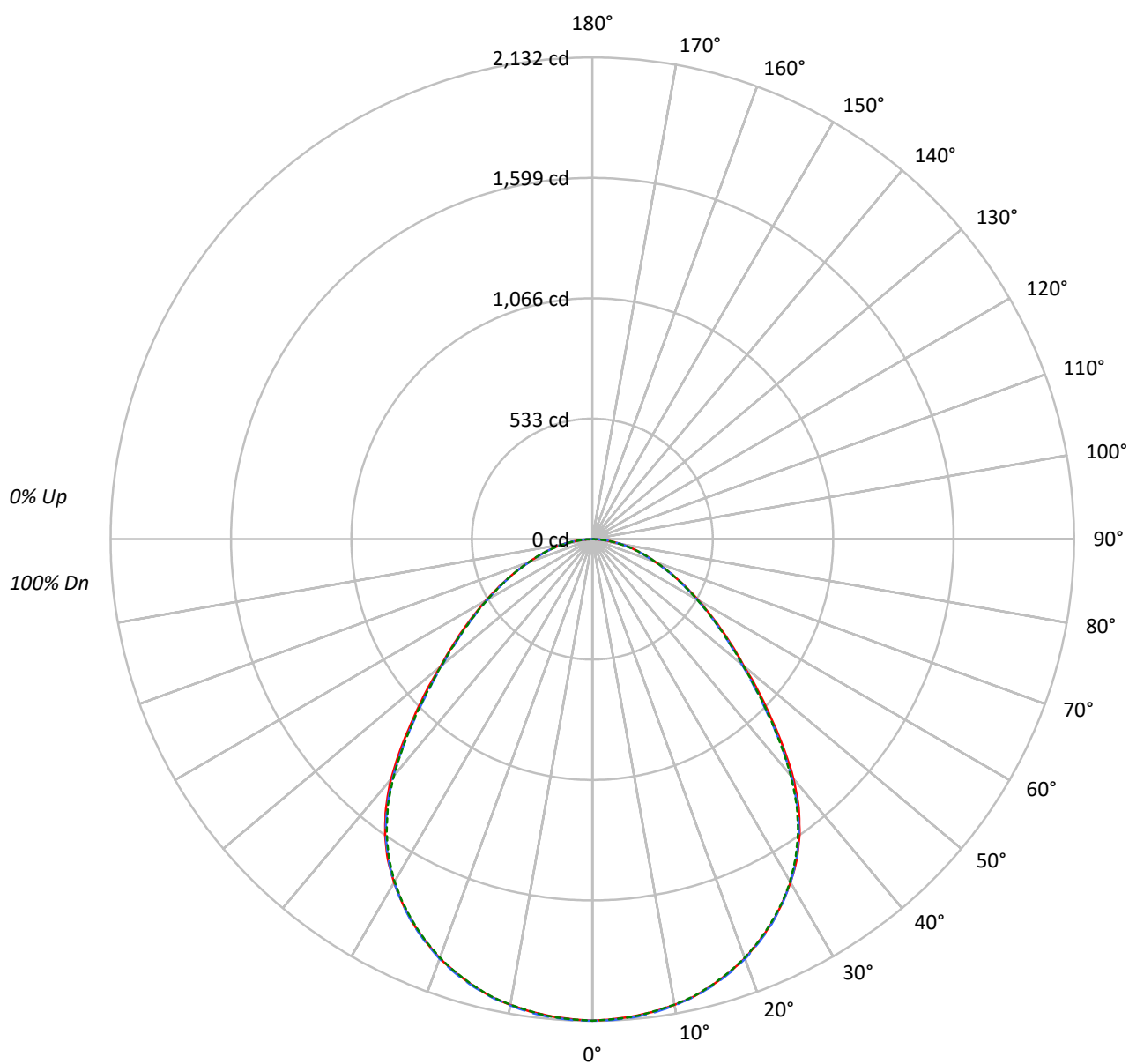
Lumens per Lamp: N/A
Luminaire Lumens: 4803.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2868	2868	2868
5°	2863	2869	2865
10°	2861	2863	2858
15°	2849	2853	2847
20°	2827	2831	2822
25°	2787	2789	2780
30°	2726	2726	2719
35°	2627	2619	2607
40°	2434	2407	2399
45°	2127	2093	2101
50°	1837	1814	1824
55°	1632	1608	1611
60°	1461	1441	1441
65°	1310	1301	1305
70°	1178	1166	1178
75°	1093	1078	1093
80°	1020	1008	973
85°	865	865	770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2127 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	4.2
10°-20°	577.5	12.0
20°-30°	864.0	18.0
30°-40°	989.9	20.6
40°-50°	856.2	17.8
50°-60°	619.6	12.9
60°-70°	408.1	8.5
70°-80°	222.2	4.6
80°-90°	63.7	1.3
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°	1643.3	34.2
0°-40°	2633.2	54.8
0°-60°	4109.1	85.6
0°-90°	4803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2120	2124	2124	2124	2121	202
15°	2045	2047	2048	2051	2044	577
25°	1877	1877	1879	1880	1873	863
35°	1599	1598	1594	1593	1587	993
45°	1118	1115	1100	1098	1104	866
55°	696	693	685	681	687	626
65°	412	414	408	405	410	411
75°	210	210	207	207	210	224
85°	56	56	56	58	50	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2131.6	2131.6	2131.6	2131.6	2131.6
2.5°	2127.0	2131.6	2130.1	2131.6	2127.0
5°	2119.5	2124.0	2124.0	2124.0	2121.0
7.5°	2108.9	2111.9	2113.4	2114.9	2107.4
10°	2093.7	2096.8	2095.3	2098.3	2092.2
12.5°	2074.1	2074.1	2075.6	2078.6	2072.6
15°	2045.3	2046.8	2048.4	2051.4	2043.8
17.5°	2012.1	2013.6	2015.1	2016.6	2010.5
20°	1974.2	1974.2	1977.3	1978.8	1971.2
22.5°	1927.3	1927.3	1930.4	1934.9	1925.8
25°	1877.4	1877.4	1878.9	1880.4	1872.9
27.5°	1818.4	1818.4	1819.9	1824.5	1815.4
30°	1754.9	1753.4	1754.9	1756.4	1750.3
32.5°	1683.8	1682.3	1680.7	1682.3	1674.7
35°	1599.1	1597.5	1594.5	1593.0	1586.9
37.5°	1500.7	1497.7	1491.6	1491.6	1485.6
40°	1385.7	1378.2	1370.6	1367.6	1366.1
42.5°	1252.6	1246.6	1236.0	1234.5	1234.5
45°	1118.0	1114.9	1099.8	1098.3	1104.4
47.5°	996.9	989.4	975.8	972.7	981.8
50°	877.4	878.9	866.8	862.3	871.4
52.5°	783.6	780.6	770.0	767.0	774.6
55°	695.9	692.9	685.3	680.8	686.8
57.5°	615.7	614.2	606.6	605.1	608.2
60°	543.1	541.6	535.5	534.0	535.5
62.5°	475.0	475.0	469.0	465.9	470.5
65°	411.5	414.5	408.5	405.4	410.0
67.5°	354.0	357.0	351.0	347.9	354.0
70°	299.5	302.6	296.5	293.5	299.5
72.5°	252.6	254.2	249.6	248.1	255.7
75°	210.3	210.3	207.3	207.3	210.3
77.5°	170.9	169.4	167.9	167.9	164.9
80°	131.6	130.1	130.1	130.1	125.6
82.5°	93.8	90.8	92.3	93.8	86.2
85°	56.0	56.0	56.0	57.5	49.9
87.5°	22.7	22.7	21.2	22.7	19.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)