

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: P1050811

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050811
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-L850-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

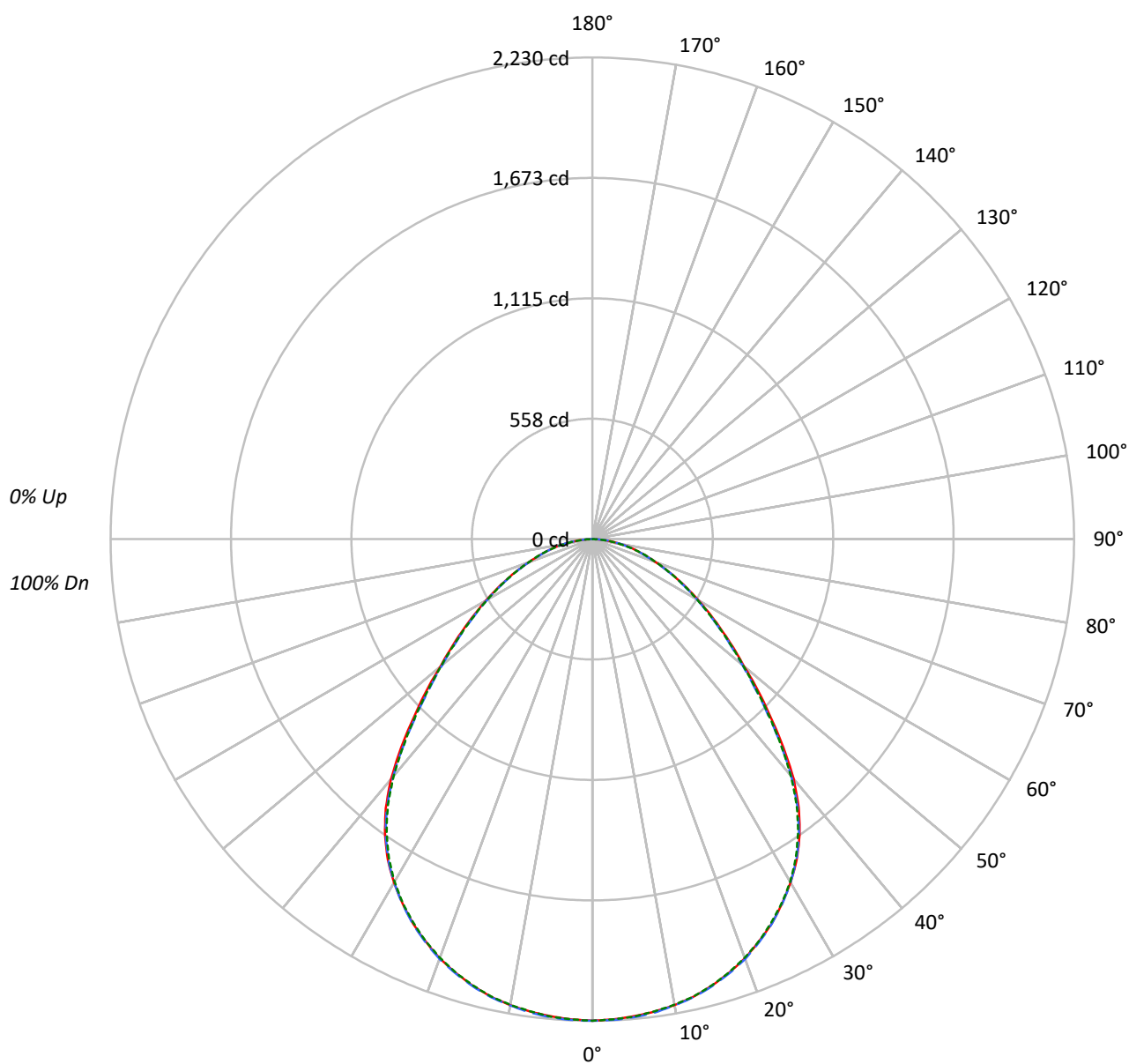
Lumens per Lamp: N/A
Luminaire Lumens: 5024.9 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3000	3000	3000
5°	2995	3001	2997
10°	2993	2995	2991
15°	2981	2985	2978
20°	2957	2962	2953
25°	2916	2918	2909
30°	2852	2852	2845
35°	2748	2740	2727
40°	2546	2519	2510
45°	2226	2189	2199
50°	1922	1898	1908
55°	1708	1682	1685
60°	1529	1508	1508
65°	1371	1360	1365
70°	1233	1220	1233
75°	1144	1127	1144
80°	1067	1055	1018
85°	905	905	806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	4.2
10°-20°	604.1	12.0
20°-30°	903.9	18.0
30°-40°	1035.7	20.6
40°-50°	895.7	17.8
50°-60°	648.3	12.9
60°-70°	427.0	8.5
70°-80°	232.4	4.6
80°-90°	66.6	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°	1719.2	34.2
0°-40°	2754.9	54.8
0°-60°	4298.8	85.6
0°-90°	5024.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5024.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2217	2222	2222	2222	2219	211
15°	2140	2141	2143	2146	2138	604
25°	1964	1964	1966	1967	1959	903
35°	1673	1671	1668	1667	1660	1039
45°	1170	1166	1151	1149	1155	906
55°	728	725	717	712	718	655
65°	430	434	427	424	429	430
75°	220	220	217	217	220	234
85°	59	59	59	60	52	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.0	2230.0	2230.0	2230.0	2230.0
2.5°	2225.3	2230.0	2228.4	2230.0	2225.3
5°	2217.3	2222.1	2222.1	2222.1	2218.9
7.5°	2206.3	2209.4	2211.0	2212.6	2204.7
10°	2190.4	2193.6	2192.0	2195.2	2188.9
12.5°	2169.9	2169.9	2171.5	2174.6	2168.3
15°	2139.8	2141.4	2143.0	2146.1	2138.2
17.5°	2105.0	2106.6	2108.1	2109.7	2103.4
20°	2065.4	2065.4	2068.6	2070.2	2062.2
22.5°	2016.3	2016.3	2019.5	2024.3	2014.8
25°	1964.1	1964.1	1965.7	1967.3	1959.4
27.5°	1902.4	1902.4	1904.0	1908.7	1899.2
30°	1835.9	1834.3	1835.9	1837.5	1831.2
32.5°	1761.5	1760.0	1758.4	1760.0	1752.0
35°	1672.9	1671.3	1668.2	1666.6	1660.2
37.5°	1570.0	1566.9	1560.5	1560.5	1554.2
40°	1449.7	1441.8	1433.9	1430.8	1429.2
42.5°	1310.5	1304.1	1293.1	1291.5	1291.5
45°	1169.6	1166.4	1150.6	1149.0	1155.4
47.5°	1043.0	1035.1	1020.8	1017.7	1027.2
50°	918.0	919.5	906.9	902.1	911.6
52.5°	819.8	816.7	805.6	802.4	810.3
55°	728.0	724.9	717.0	712.2	718.5
57.5°	644.2	642.6	634.7	633.1	636.2
60°	568.2	566.6	560.3	558.7	560.3
62.5°	497.0	497.0	490.6	487.5	492.2
65°	430.5	433.7	427.3	424.2	428.9
67.5°	370.3	373.5	367.2	364.0	370.3
70°	313.4	316.5	310.2	307.0	313.4
72.5°	264.3	265.9	261.1	259.6	267.5
75°	220.0	220.0	216.8	216.8	220.0
77.5°	178.8	177.3	175.7	175.7	172.5
80°	137.7	136.1	136.1	136.1	131.4
82.5°	98.1	95.0	96.5	98.1	90.2
85°	58.6	58.6	58.6	60.1	52.2
87.5°	23.7	23.7	22.2	23.7	20.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)