

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: P1050737

Luminaire Tested: 24PTR-80-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PL1-L850-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

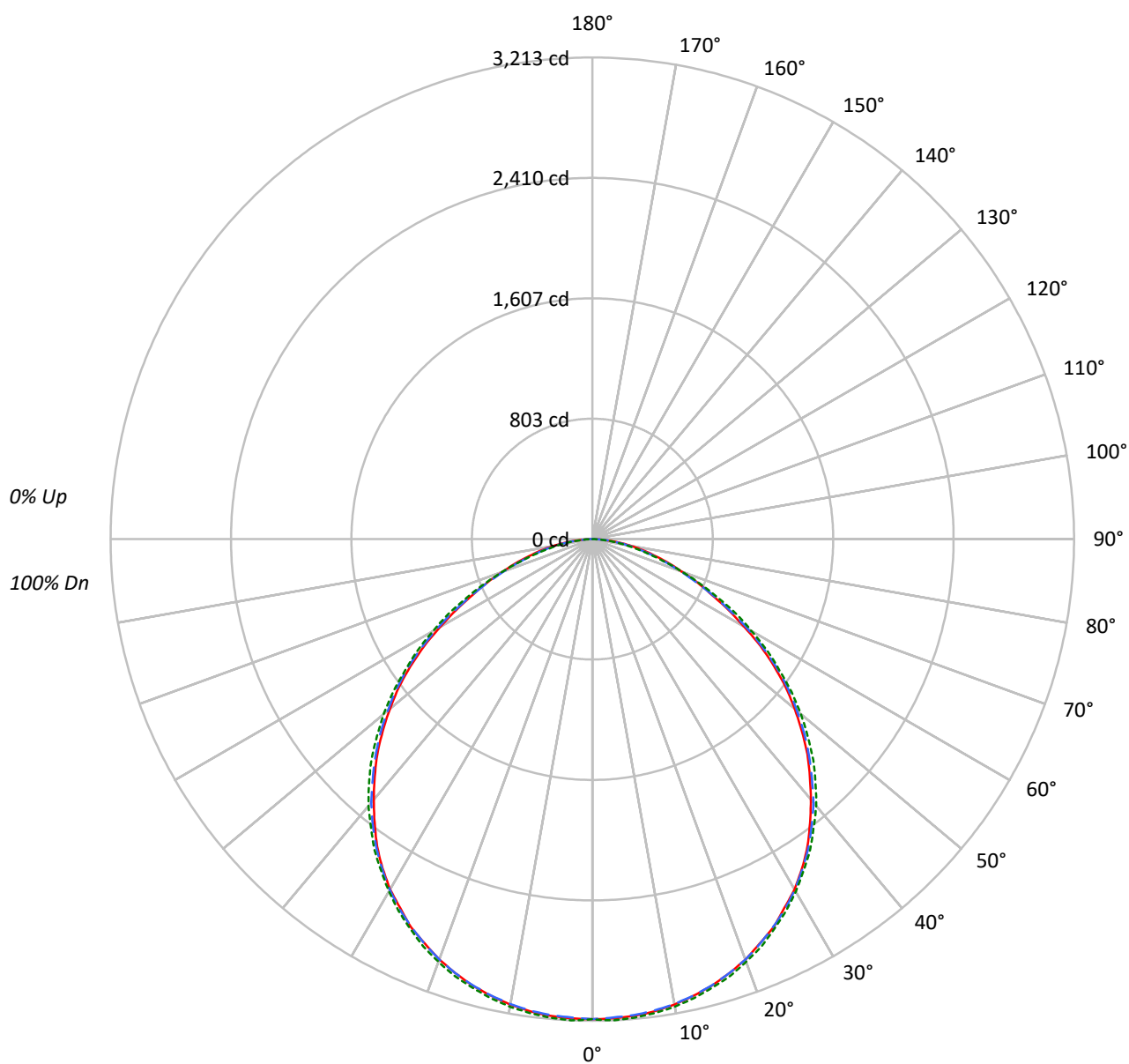
Lumens per Lamp: N/A
Luminaire Lumens: 8441.9 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68
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	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4309	4309	4309
5°	4313	4305	4328
10°	4307	4302	4327
15°	4294	4292	4314
20°	4273	4273	4297
25°	4244	4238	4261
30°	4190	4196	4216
35°	4110	4126	4159
40°	3982	4029	4080
45°	3858	3890	3965
50°	3688	3728	3802
55°	3474	3530	3571
60°	3151	3218	3299
65°	2799	2829	2943
70°	2502	2451	2512
75°	2257	2127	2085
80°	2051	1905	1691
85°	1737	1578	1359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3965 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	3.6
10°-20°	871.3	10.3
20°-30°	1317.9	15.6
30°-40°	1571.0	18.6
40°-50°	1579.7	18.7
50°-60°	1340.7	15.9
60°-70°	892.6	10.6
70°-80°	445.7	5.3
80°-90°	119.2	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°	2493.0	29.5
0°-40°	4064.0	48.1
0°-60°	6984.3	82.7
0°-90°	8441.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8441.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3203	3203	3203	3203	3203	
5°	3193	3194	3187	3201	3205	304
15°	3083	3086	3081	3094	3097	870
25°	2858	2858	2855	2868	2870	1314
35°	2502	2505	2512	2530	2532	1561
45°	2028	2031	2044	2072	2084	1560
55°	1481	1491	1505	1519	1522	1320
65°	879	886	889	902	924	881
75°	434	428	409	400	401	466
85°	112	110	102	96	88	130
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3202.6	3202.6	3202.6	3202.6	3202.6
2.5°	3200.0	3202.6	3194.0	3209.5	3213.4
5°	3193.1	3194.0	3187.1	3201.3	3204.8
7.5°	3177.6	3178.9	3171.6	3187.1	3189.2
10°	3152.6	3155.2	3149.1	3163.4	3166.8
12.5°	3120.7	3124.1	3118.1	3133.6	3136.2
15°	3082.7	3086.2	3081.4	3094.4	3097.0
17.5°	3036.2	3038.8	3036.2	3048.2	3055.1
20°	2984.0	2984.0	2984.0	2994.8	3000.8
22.5°	2918.9	2924.9	2922.4	2936.6	2942.6
25°	2858.5	2858.5	2854.7	2868.0	2870.2
27.5°	2774.0	2783.5	2782.7	2794.3	2796.9
30°	2696.9	2699.4	2700.7	2708.9	2713.7
32.5°	2603.3	2605.5	2609.3	2621.0	2622.3
35°	2502.4	2505.0	2511.9	2529.6	2532.2
37.5°	2385.1	2398.1	2404.1	2423.1	2425.2
40°	2267.4	2275.6	2293.7	2313.6	2323.0
42.5°	2147.6	2157.1	2167.8	2195.0	2203.6
45°	2027.7	2031.2	2044.5	2071.7	2083.8
47.5°	1894.9	1905.7	1917.3	1941.0	1948.4
50°	1762.1	1773.8	1781.1	1802.2	1816.4
52.5°	1628.0	1638.8	1647.0	1659.9	1674.2
55°	1481.0	1491.4	1504.7	1519.0	1522.4
57.5°	1331.4	1343.0	1351.7	1366.8	1382.3
60°	1171.0	1184.4	1196.0	1210.2	1225.8
62.5°	1021.8	1027.4	1039.5	1063.2	1085.6
65°	879.1	886.4	888.6	902.0	924.4
67.5°	760.6	760.6	749.8	754.5	779.5
70°	635.9	631.2	623.0	618.3	638.5
72.5°	535.1	529.0	511.3	503.2	513.9
75°	434.2	428.1	409.2	399.7	401.0
77.5°	348.8	339.3	323.8	307.4	304.0
80°	264.7	260.8	245.8	230.2	218.2
82.5°	187.6	179.4	170.7	161.3	151.8
85°	112.5	110.4	102.2	96.1	88.0
87.5°	46.1	46.1	44.0	41.4	39.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)