

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: P1050506

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-L850-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

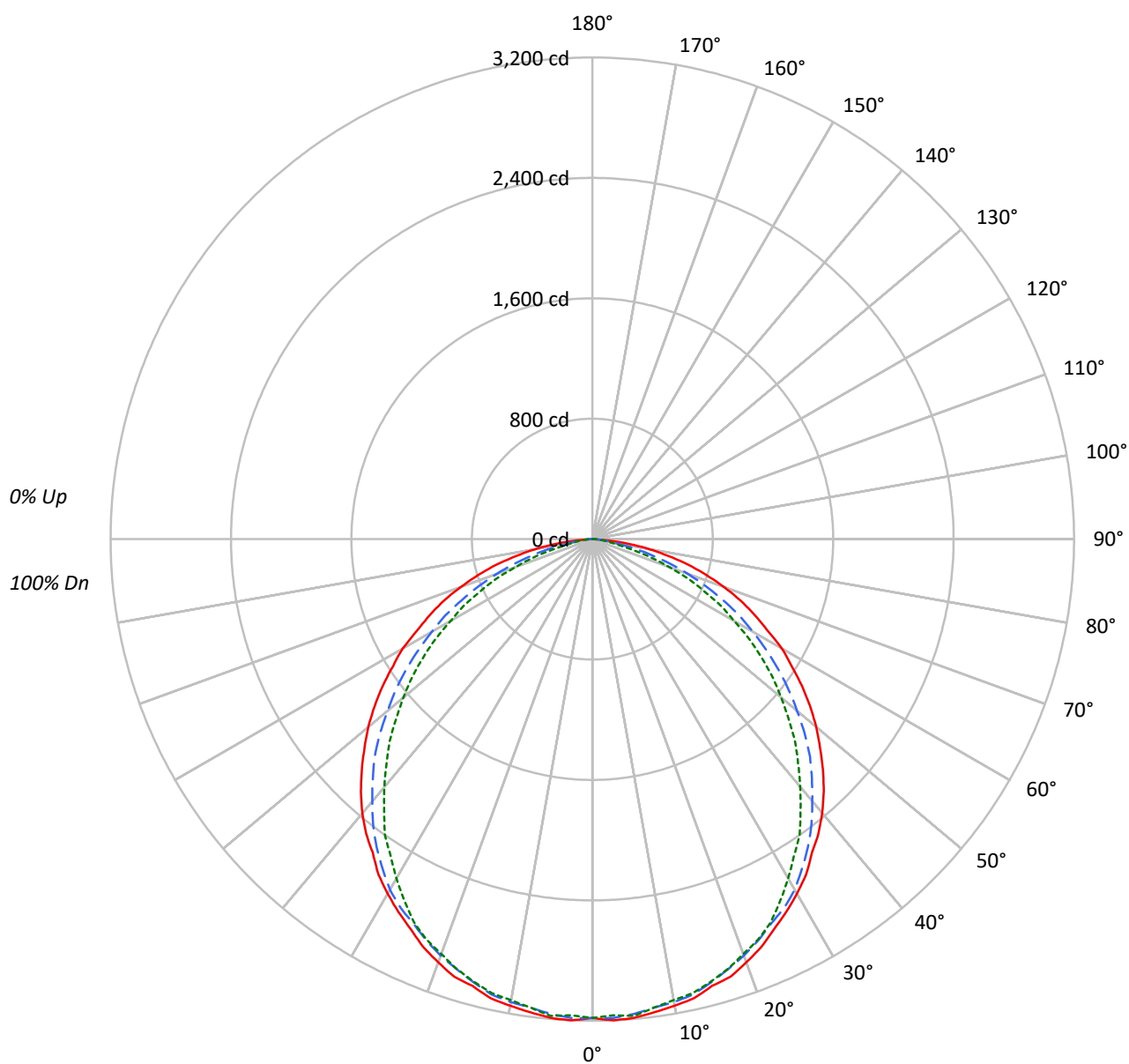
Lumens per Lamp: N/A
Luminaire Lumens: 8474.2 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4281	4281	4281
5°	4312	4276	4294
10°	4300	4266	4248
15°	4281	4247	4239
20°	4284	4216	4200
25°	4242	4180	4166
30°	4224	4177	4042
35°	4177	4102	3943
40°	4173	3994	3774
45°	4121	3890	3624
50°	4065	3716	3427
55°	3987	3543	3218
60°	3916	3314	2922
65°	3783	3040	2612
70°	3660	2646	2132
75°	3438	2088	1468
80°	2980	1263	881
85°	1988	906	848

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	3.6
10°-20°	862.9	10.2
20°-30°	1303.5	15.4
30°-40°	1549.8	18.3
40°-50°	1571.8	18.5
50°-60°	1364.9	16.1
60°-70°	968.9	11.4
70°-80°	463.0	5.5
80°-90°	87.7	1.0
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°	2468.0	29.1
0°-40°	4017.8	47.4
0°-60°	6954.5	82.1
0°-90°	8474.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8474.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3181	3181	3181	3181	3181	
5°	3193	3181	3166	3174	3180	303
15°	3073	3081	3049	3045	3043	871
25°	2857	2854	2816	2827	2806	1320
35°	2543	2539	2497	2412	2401	1598
45°	2166	2147	2044	1936	1904	1671
55°	1700	1648	1510	1421	1372	1519
65°	1188	1099	955	853	820	1177
75°	661	540	402	318	282	693
85°	129	68	59	57	55	162
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3181.4	3181.4	3181.4	3181.4	3181.4
2.5°	3200.4	3189.0	3185.2	3198.5	3166.2
5°	3192.8	3181.4	3166.2	3173.8	3179.5
7.5°	3170.0	3160.6	3139.7	3156.8	3139.7
10°	3147.3	3137.8	3122.7	3128.4	3109.4
12.5°	3124.6	3101.8	3098.0	3101.8	3088.6
15°	3073.4	3081.0	3048.8	3045.0	3043.1
17.5°	3048.8	3029.8	2995.7	2997.6	2993.8
20°	2991.9	2969.2	2944.6	2940.8	2933.2
22.5°	2933.2	2906.7	2883.9	2895.3	2878.2
25°	2857.4	2853.6	2815.7	2827.1	2806.2
27.5°	2791.1	2777.8	2760.8	2736.1	2705.8
30°	2719.1	2705.8	2688.8	2624.3	2601.6
32.5°	2643.3	2628.1	2594.0	2518.2	2493.6
35°	2542.9	2539.1	2497.4	2412.1	2400.7
37.5°	2467.1	2425.4	2391.3	2304.1	2271.9
40°	2376.1	2353.4	2273.8	2190.4	2148.7
42.5°	2275.7	2249.2	2158.2	2069.1	2023.7
45°	2165.8	2146.8	2044.5	1936.5	1904.3
47.5°	2052.1	2035.0	1913.8	1809.6	1767.9
50°	1942.2	1921.3	1775.4	1675.0	1637.1
52.5°	1822.8	1788.7	1644.7	1546.2	1510.2
55°	1699.7	1648.5	1510.2	1421.1	1371.9
57.5°	1568.9	1521.5	1368.1	1275.2	1235.4
60°	1455.2	1388.9	1231.6	1136.9	1085.7
62.5°	1309.3	1252.5	1102.8	991.0	966.4
65°	1188.1	1099.0	955.0	852.7	820.5
67.5°	1064.9	960.7	814.8	710.6	693.5
70°	930.4	822.4	672.7	570.3	541.9
72.5°	793.9	687.8	541.9	433.9	416.9
75°	661.3	540.0	401.7	318.3	282.3
77.5°	517.3	407.4	282.3	195.2	172.4
80°	384.6	274.7	163.0	115.6	113.7
82.5°	252.0	159.2	87.2	89.1	85.3
85°	128.8	68.2	58.7	56.8	54.9
87.5°	24.6	26.5	28.4	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)