

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: P1050244

Luminaire Tested: PTR-14-80-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050244
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: PTR-14-80-PL1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

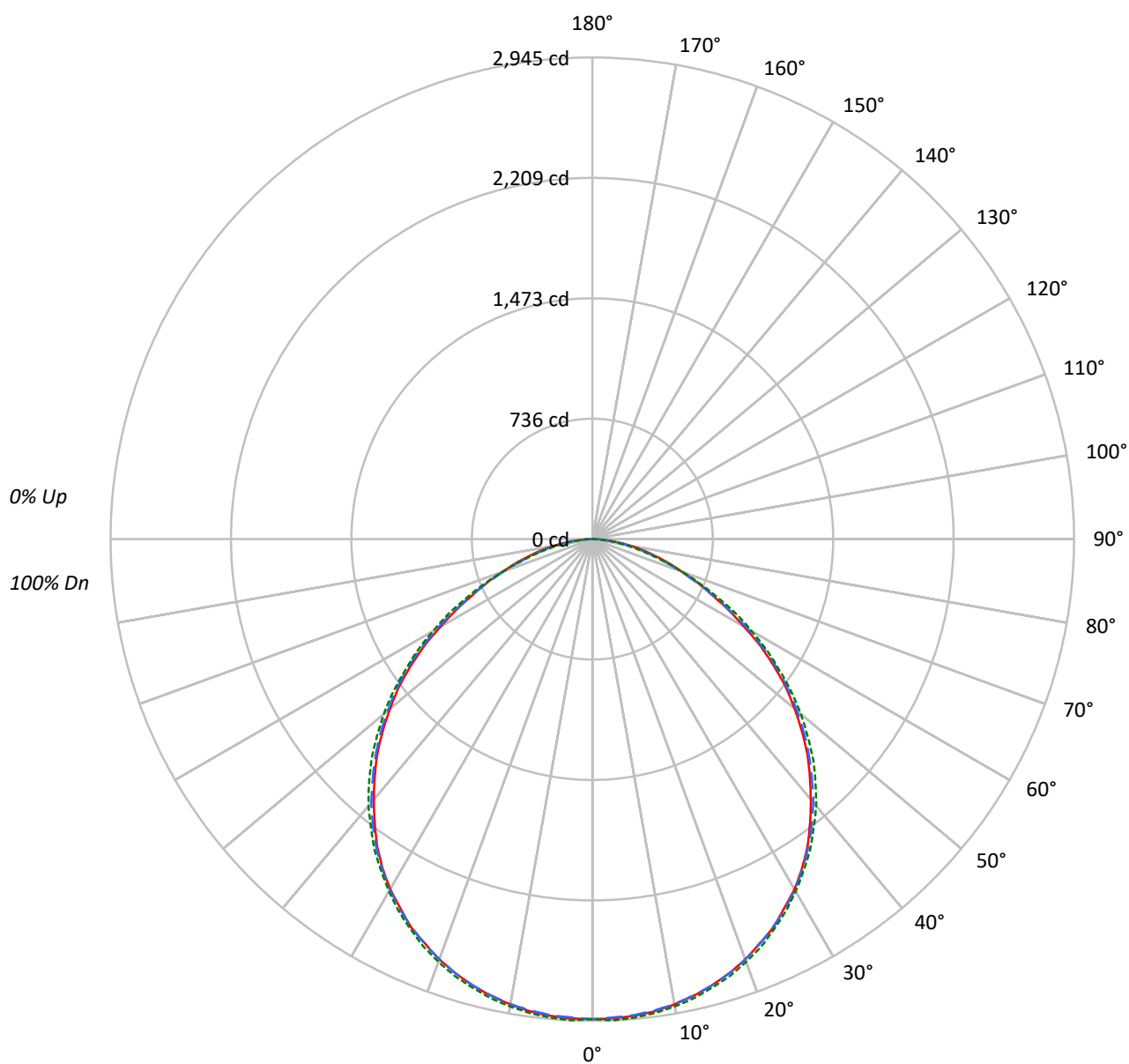
Lumens per Lamp: N/A
Luminaire Lumens: 7736.7 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 71
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°	7898	7898	7898
5°	7905	7890	7934
10°	7895	7886	7930
15°	7871	7867	7907
20°	7831	7831	7875
25°	7778	7768	7810
30°	7680	7691	7728
35°	7534	7562	7623
40°	7300	7384	7479
45°	7072	7131	7268
50°	6761	6833	6969
55°	6368	6470	6546
60°	5776	5899	6046
65°	5130	5186	5394
70°	4585	4493	4604
75°	4137	3899	3821
80°	3760	3490	3098
85°	3183	2890	2489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	3.6
10°-20°	798.5	10.3
20°-30°	1207.8	15.6
30°-40°	1439.7	18.6
40°-50°	1447.7	18.7
50°-60°	1228.7	15.9
60°-70°	818.1	10.6
70°-80°	408.5	5.3
80°-90°	109.3	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°	2284.7	29.5
0°-40°	3724.4	48.1
0°-60°	6400.8	82.7
0°-90°	7736.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7736.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2935	2935	2935	2935	2935	
5°	2926	2927	2921	2934	2937	278
15°	2825	2828	2824	2836	2838	797
25°	2620	2620	2616	2628	2630	1205
35°	2293	2296	2302	2318	2321	1431
45°	1858	1862	1874	1899	1910	1430
55°	1357	1367	1379	1392	1395	1210
65°	806	812	814	827	847	808
75°	398	392	375	366	368	427
85°	103	101	94	88	81	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.0	2935.0	2935.0	2935.0	2935.0
2.5°	2932.7	2935.0	2927.1	2941.4	2944.9
5°	2926.3	2927.1	2920.8	2933.9	2937.0
7.5°	2912.1	2913.3	2906.6	2920.8	2922.8
10°	2889.2	2891.6	2886.0	2899.1	2902.2
12.5°	2860.0	2863.1	2857.6	2871.8	2874.2
15°	2825.2	2828.4	2824.0	2835.9	2838.2
17.5°	2782.5	2784.9	2782.5	2793.6	2799.9
20°	2734.7	2734.7	2734.7	2744.6	2750.1
22.5°	2675.0	2680.6	2678.2	2691.2	2696.8
25°	2619.7	2619.7	2616.2	2628.4	2630.4
27.5°	2542.3	2551.0	2550.2	2560.9	2563.2
30°	2471.6	2473.9	2475.1	2482.6	2487.0
32.5°	2385.8	2387.8	2391.3	2402.0	2403.2
35°	2293.3	2295.7	2302.0	2318.2	2320.6
37.5°	2185.9	2197.7	2203.3	2220.6	2222.6
40°	2078.0	2085.5	2102.1	2120.3	2129.0
42.5°	1968.2	1976.8	1986.7	2011.6	2019.5
45°	1858.3	1861.5	1873.7	1898.6	1909.7
47.5°	1736.6	1746.5	1757.2	1778.9	1785.6
50°	1614.9	1625.6	1632.3	1651.7	1664.7
52.5°	1492.0	1501.9	1509.4	1521.3	1534.3
55°	1357.3	1366.8	1379.0	1392.1	1395.2
57.5°	1220.2	1230.8	1238.7	1252.6	1266.8
60°	1073.2	1085.4	1096.1	1109.1	1123.4
62.5°	936.5	941.6	952.7	974.4	994.9
65°	805.7	812.4	814.4	826.6	847.2
67.5°	697.0	697.0	687.1	691.5	714.4
70°	582.8	578.5	571.0	566.6	585.2
72.5°	490.4	484.8	468.6	461.1	471.0
75°	397.9	392.4	375.0	366.3	367.5
77.5°	319.7	311.0	296.7	281.7	278.6
80°	242.6	239.1	225.2	211.0	199.9
82.5°	171.9	164.4	156.5	147.8	139.1
85°	103.1	101.2	93.6	88.1	80.6
87.5°	42.3	42.3	40.3	37.9	36.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)