

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: P1050440

Luminaire Tested: PTR-14-80-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-80-PW1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

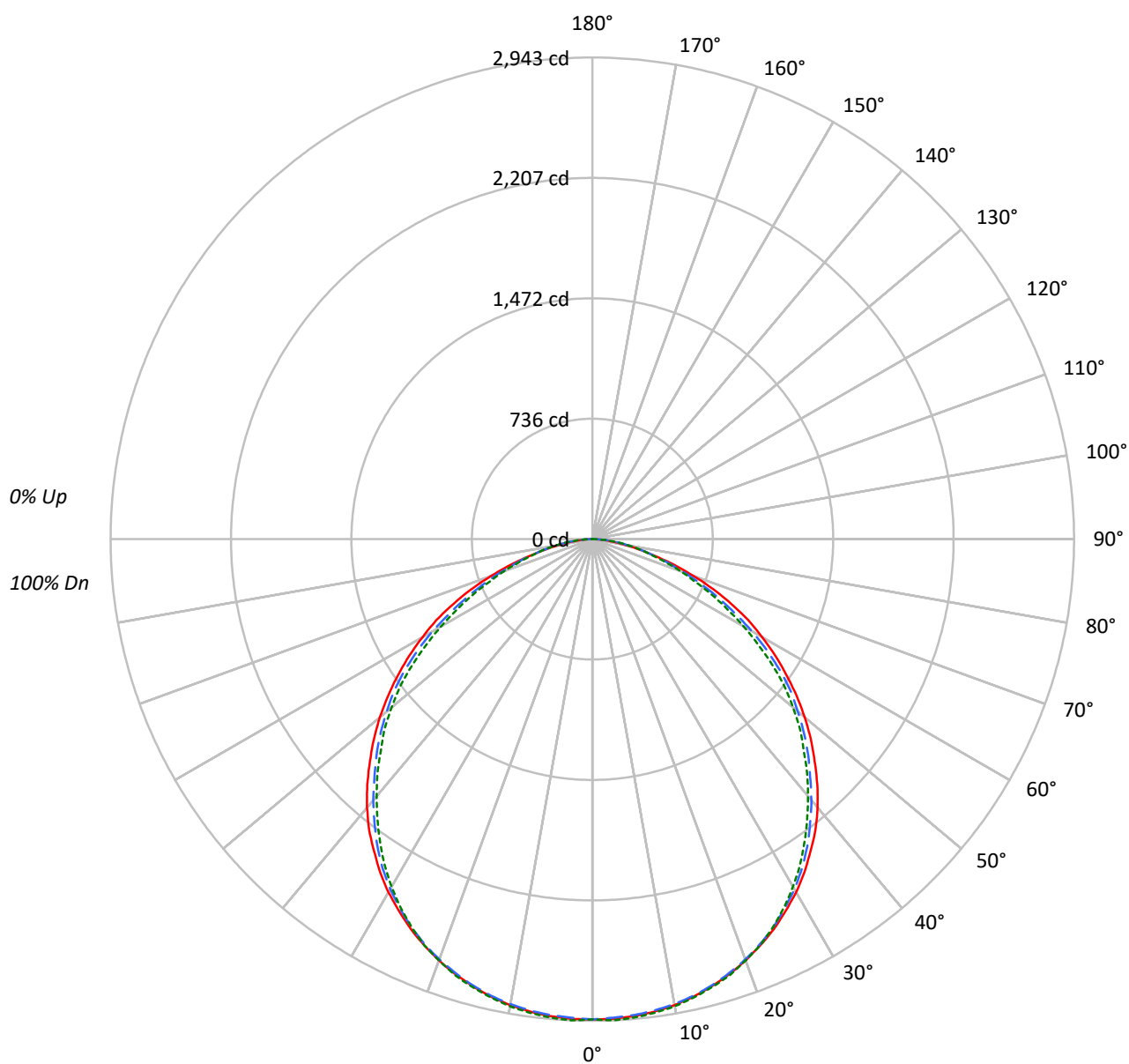
Lumens per Lamp: N/A
Luminaire Lumens: 7787.5 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	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	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7897	7897	7897
5°	7903	7886	7927
10°	7900	7882	7921
15°	7876	7864	7893
20°	7843	7825	7843
25°	7800	7767	7761
30°	7741	7673	7619
35°	7637	7522	7426
40°	7520	7314	7199
45°	7312	7096	6951
50°	7091	6859	6701
55°	6796	6566	6305
60°	6443	6063	5746
65°	5960	5414	5145
70°	5167	4713	4536
75°	4125	4034	3923
80°	3135	3502	3502
85°	2319	2989	2989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7312 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	3.6
10°-20°	798.2	10.2
20°-30°	1206.4	15.5
30°-40°	1432.4	18.4
40°-50°	1443.1	18.5
50°-60°	1247.4	16.0
60°-70°	852.6	10.9
70°-80°	420.4	5.4
80°-90°	108.7	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°	2282.9	29.3
0°-40°	3715.3	47.7
0°-60°	6405.8	82.3
0°-90°	7787.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7787.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2934	2934	2934	2934	2934	
5°	2926	2927	2920	2931	2934	278
15°	2827	2830	2823	2832	2833	798
25°	2627	2625	2616	2618	2614	1210
35°	2325	2317	2290	2269	2260	1455
45°	1921	1900	1864	1843	1827	1483
55°	1448	1444	1400	1358	1344	1295
65°	936	902	850	813	808	924
75°	397	394	388	388	377	432
85°	75	88	97	99	97	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2934.5	2934.5	2934.5	2934.5	2934.5
2.5°	2933.7	2934.5	2927.0	2940.0	2943.2
5°	2925.8	2927.0	2919.5	2931.3	2934.5
7.5°	2911.9	2913.9	2905.2	2917.1	2919.5
10°	2891.0	2892.2	2884.7	2896.5	2898.9
12.5°	2863.0	2863.7	2857.4	2868.1	2868.1
15°	2827.0	2830.2	2822.7	2832.5	2833.3
17.5°	2786.7	2787.9	2780.4	2791.0	2793.4
20°	2738.9	2738.9	2732.6	2741.3	2738.9
22.5°	2685.6	2685.6	2678.0	2682.4	2684.4
25°	2627.1	2624.7	2616.0	2618.4	2614.0
27.5°	2559.5	2559.5	2544.1	2544.1	2536.6
30°	2491.2	2485.6	2469.4	2459.5	2452.0
32.5°	2412.5	2405.0	2384.5	2367.1	2361.6
35°	2324.8	2316.9	2289.7	2269.1	2260.4
37.5°	2239.9	2222.5	2186.5	2166.0	2156.1
40°	2140.7	2119.0	2082.2	2053.8	2049.4
42.5°	2034.4	2017.0	1969.2	1948.3	1943.1
45°	1921.4	1900.5	1864.5	1842.8	1826.6
47.5°	1810.4	1795.0	1753.9	1727.8	1722.3
50°	1693.8	1680.8	1638.5	1610.5	1600.6
52.5°	1573.3	1564.6	1528.7	1492.7	1480.9
55°	1448.5	1444.1	1399.5	1358.0	1343.8
57.5°	1325.6	1320.1	1264.3	1216.5	1203.5
60°	1197.2	1181.0	1126.5	1081.8	1067.6
62.5°	1075.5	1040.7	981.8	947.1	930.9
65°	936.0	902.4	850.3	813.1	808.0
67.5°	799.3	759.0	718.7	695.8	678.4
70°	656.7	629.4	599.0	579.6	576.5
72.5°	523.9	504.6	489.1	477.3	467.4
75°	396.7	393.5	388.0	388.0	377.3
77.5°	291.6	299.1	303.4	302.3	304.6
80°	202.3	217.3	226.0	227.2	226.0
82.5°	128.4	145.8	160.0	162.0	164.4
85°	75.1	88.1	96.8	98.8	96.8
87.5°	33.6	42.3	44.6	46.6	44.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)