

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: P1050146

Luminaire Tested: PTR-14-80-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-80-PB1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

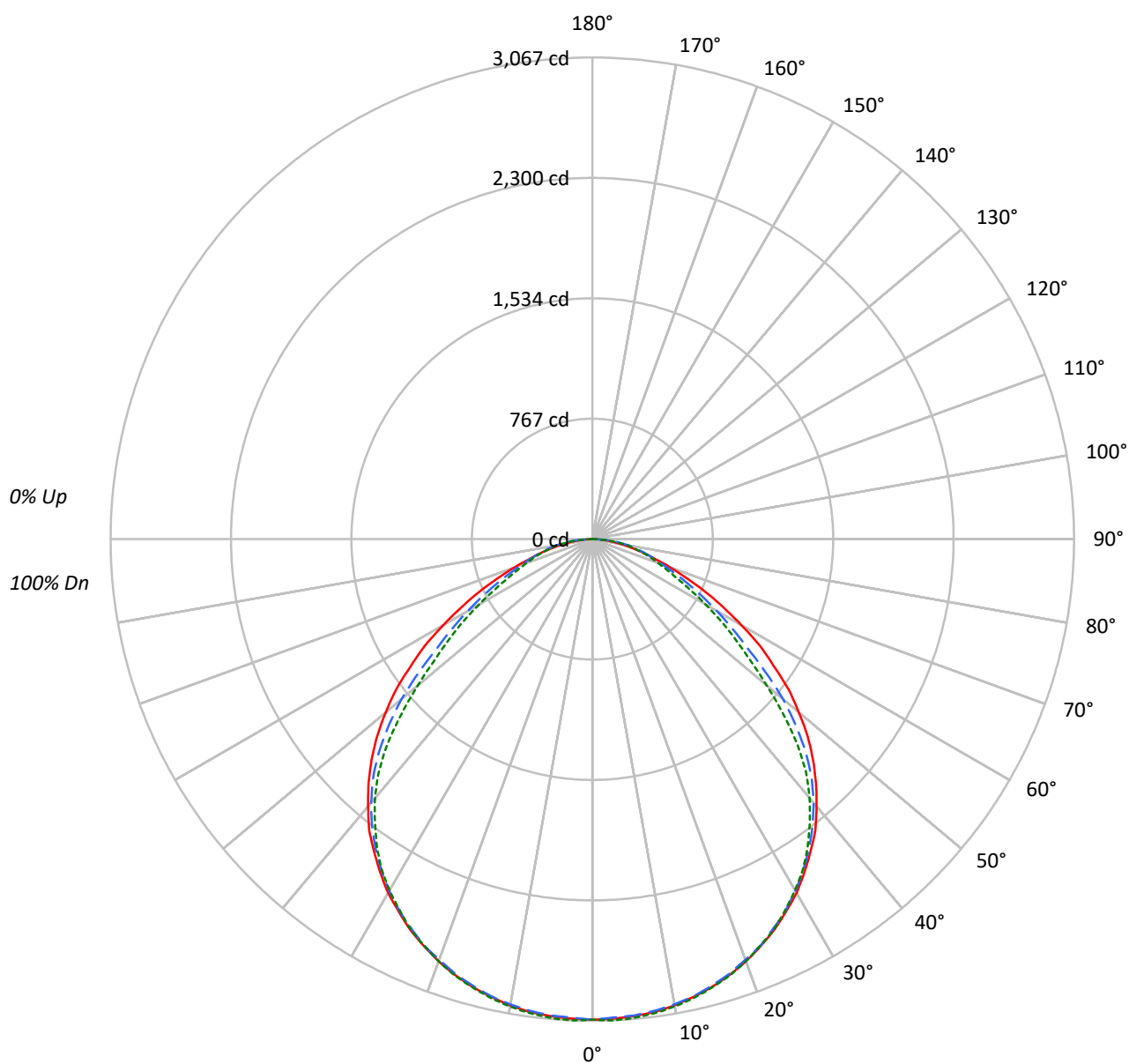
Lumens per Lamp: N/A
Luminaire Lumens: 7630.1 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8234	8234	8234
5°	8235	8225	8266
10°	8238	8218	8259
15°	8221	8200	8231
20°	8191	8159	8191
25°	8147	8113	8135
30°	8081	8035	8022
35°	7962	7901	7852
40°	7801	7695	7562
45°	7562	7319	7018
50°	7186	6633	6066
55°	6622	5634	5226
60°	5895	4923	4477
65°	5057	4267	3812
70°	4175	3762	3494
75°	3520	3598	3406
80°	2975	3674	3502
85°	2331	3721	3257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7562 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	3.8
10°-20°	832.5	10.9
20°-30°	1261.1	16.5
30°-40°	1502.7	19.7
40°-50°	1469.4	19.3
50°-60°	1111.5	14.6
60°-70°	682.9	8.9
70°-80°	363.8	4.8
80°-90°	116.1	1.5
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°	2383.7	31.2
0°-40°	3886.4	50.9
0°-60°	6467.3	84.8
0°-90°	7630.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7630.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3060	3060	3060	3060	3060	
5°	3048	3052	3045	3056	3060	290
15°	2951	2954	2943	2954	2954	833
25°	2744	2740	2732	2736	2740	1264
35°	2424	2420	2405	2394	2390	1516
45°	1987	1976	1923	1859	1844	1529
55°	1411	1340	1201	1133	1114	1264
65°	794	730	670	617	599	790
75°	339	343	346	335	328	363
85°	76	98	120	113	106	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3059.9	3059.9	3059.9	3059.9	3059.9
2.5°	3056.4	3059.9	3048.5	3063.9	3067.4
5°	3048.5	3052.4	3044.9	3056.4	3059.9
7.5°	3037.4	3037.4	3029.9	3041.0	3044.9
10°	3014.9	3014.9	3007.4	3018.4	3022.4
12.5°	2984.9	2984.9	2980.9	2988.4	2992.4
15°	2950.9	2954.4	2943.4	2954.4	2954.4
17.5°	2909.4	2905.8	2901.9	2909.4	2913.3
20°	2860.4	2860.4	2849.3	2856.8	2860.4
22.5°	2803.9	2803.9	2800.3	2803.9	2800.3
25°	2743.8	2739.9	2732.4	2736.3	2739.9
27.5°	2672.3	2672.3	2664.8	2664.8	2660.8
30°	2600.8	2596.8	2585.8	2578.3	2581.8
32.5°	2514.2	2510.3	2499.2	2491.7	2495.3
35°	2423.8	2420.2	2405.2	2393.7	2390.2
37.5°	2333.7	2322.2	2303.2	2288.2	2273.2
40°	2220.7	2209.2	2190.6	2156.6	2152.7
42.5°	2107.7	2096.6	2066.2	2025.1	2013.6
45°	1987.1	1976.1	1923.1	1859.1	1844.1
47.5°	1859.1	1840.5	1757.6	1678.5	1648.5
50°	1716.5	1682.5	1584.5	1482.9	1449.0
52.5°	1577.0	1516.9	1388.9	1298.4	1264.8
55°	1411.4	1339.9	1200.8	1132.9	1113.9
57.5°	1264.8	1166.8	1053.8	986.3	971.2
60°	1095.3	1004.8	914.7	854.3	831.8
62.5°	940.8	861.8	786.7	733.8	707.7
65°	794.2	730.2	670.1	617.2	598.6
67.5°	651.2	617.2	568.2	527.1	515.7
70°	530.7	511.7	478.1	459.1	444.1
72.5°	421.6	429.1	406.6	399.1	387.6
75°	338.6	342.6	346.1	335.1	327.6
77.5°	256.0	274.6	289.6	282.1	274.6
80°	192.0	210.6	237.1	226.0	226.0
82.5°	131.6	154.5	177.0	169.5	165.6
85°	75.5	98.0	120.5	113.0	105.5
87.5°	30.0	49.0	52.6	52.6	49.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)