

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: P1050096

Luminaire Tested: PTR-14-80-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050096
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: PTR-14-80-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

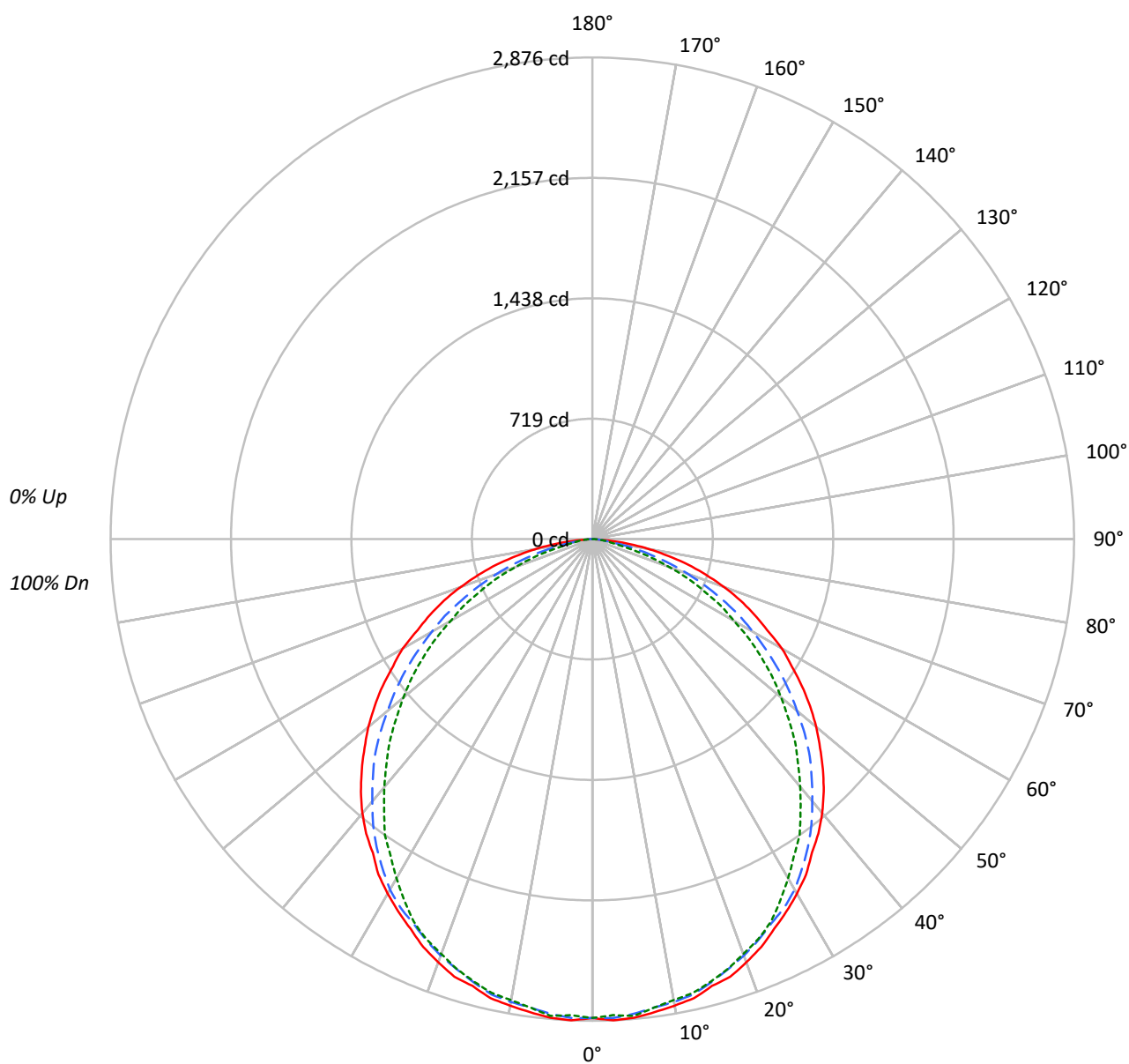
Lumens per Lamp: N/A
Luminaire Lumens: 7615.2 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	7693	7693	7693
5°	7750	7686	7718
10°	7728	7668	7635
15°	7694	7633	7618
20°	7700	7578	7548
25°	7624	7513	7488
30°	7593	7508	7264
35°	7507	7372	7087
40°	7501	7178	6783
45°	7407	6992	6513
50°	7307	6679	6159
55°	7166	6367	5784
60°	7038	5957	5251
65°	6798	5465	4695
70°	6578	4756	3832
75°	6179	3753	2638
80°	5357	2269	1584
85°	3575	1630	1525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	3.6
10°-20°	775.5	10.2
20°-30°	1171.4	15.4
30°-40°	1392.7	18.3
40°-50°	1412.5	18.5
50°-60°	1226.5	16.1
60°-70°	870.7	11.4
70°-80°	416.1	5.5
80°-90°	78.8	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°	2217.8	29.1
0°-40°	3610.5	47.4
0°-60°	6249.6	82.1
0°-90°	7615.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7615.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2859	2859	2859	2859	2859	
5°	2869	2859	2845	2852	2857	272
15°	2762	2769	2740	2736	2735	782
25°	2568	2564	2530	2540	2522	1186
35°	2285	2282	2244	2168	2157	1436
45°	1946	1929	1837	1740	1711	1501
55°	1527	1481	1357	1277	1233	1365
65°	1068	988	858	766	737	1057
75°	594	485	361	286	254	623
85°	116	61	53	51	49	146
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2858.9	2858.9	2858.9	2858.9	2858.9
2.5°	2876.0	2865.7	2862.3	2874.3	2845.3
5°	2869.1	2858.9	2845.3	2852.1	2857.2
7.5°	2848.7	2840.2	2821.5	2836.8	2821.5
10°	2828.3	2819.8	2806.1	2811.3	2794.2
12.5°	2807.8	2787.4	2784.0	2787.4	2775.5
15°	2761.9	2768.7	2739.7	2736.3	2734.6
17.5°	2739.7	2722.7	2692.1	2693.8	2690.4
20°	2688.7	2668.2	2646.1	2642.7	2635.9
22.5°	2635.9	2612.0	2591.6	2601.8	2586.5
25°	2567.8	2564.4	2530.3	2540.5	2521.8
27.5°	2508.2	2496.2	2480.9	2458.8	2431.5
30°	2443.5	2431.5	2416.2	2358.3	2337.9
32.5°	2375.3	2361.7	2331.1	2263.0	2240.8
35°	2285.1	2281.7	2244.2	2167.6	2157.4
37.5°	2217.0	2179.5	2148.9	2070.6	2041.6
40°	2135.3	2114.8	2043.3	1968.4	1930.9
42.5°	2045.0	2021.2	1939.4	1859.4	1818.5
45°	1946.3	1929.2	1837.3	1740.2	1711.3
47.5°	1844.1	1828.8	1719.8	1626.1	1588.7
50°	1745.3	1726.6	1595.5	1505.2	1471.2
52.5°	1638.1	1607.4	1478.0	1389.4	1357.1
55°	1527.4	1481.4	1357.1	1277.1	1232.8
57.5°	1409.9	1367.3	1229.4	1146.0	1110.2
60°	1307.7	1248.1	1106.8	1021.7	975.7
62.5°	1176.6	1125.5	991.0	890.5	868.4
65°	1067.6	987.6	858.2	766.2	737.3
67.5°	956.9	863.3	732.2	638.5	623.2
70°	836.1	739.0	604.5	512.5	487.0
72.5°	713.5	618.1	487.0	389.9	374.6
75°	594.3	485.3	361.0	286.1	253.7
77.5°	464.9	366.1	253.7	175.4	155.0
80°	345.7	246.9	146.4	103.9	102.2
82.5°	226.5	143.0	78.3	80.0	76.6
85°	115.8	61.3	52.8	51.1	49.4
87.5°	22.1	23.8	25.5	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)