

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: P1050277

Luminaire Tested: PTR-14-70-PLG-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-70-PLG-L840-UNV-STD-W
Description: 7000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

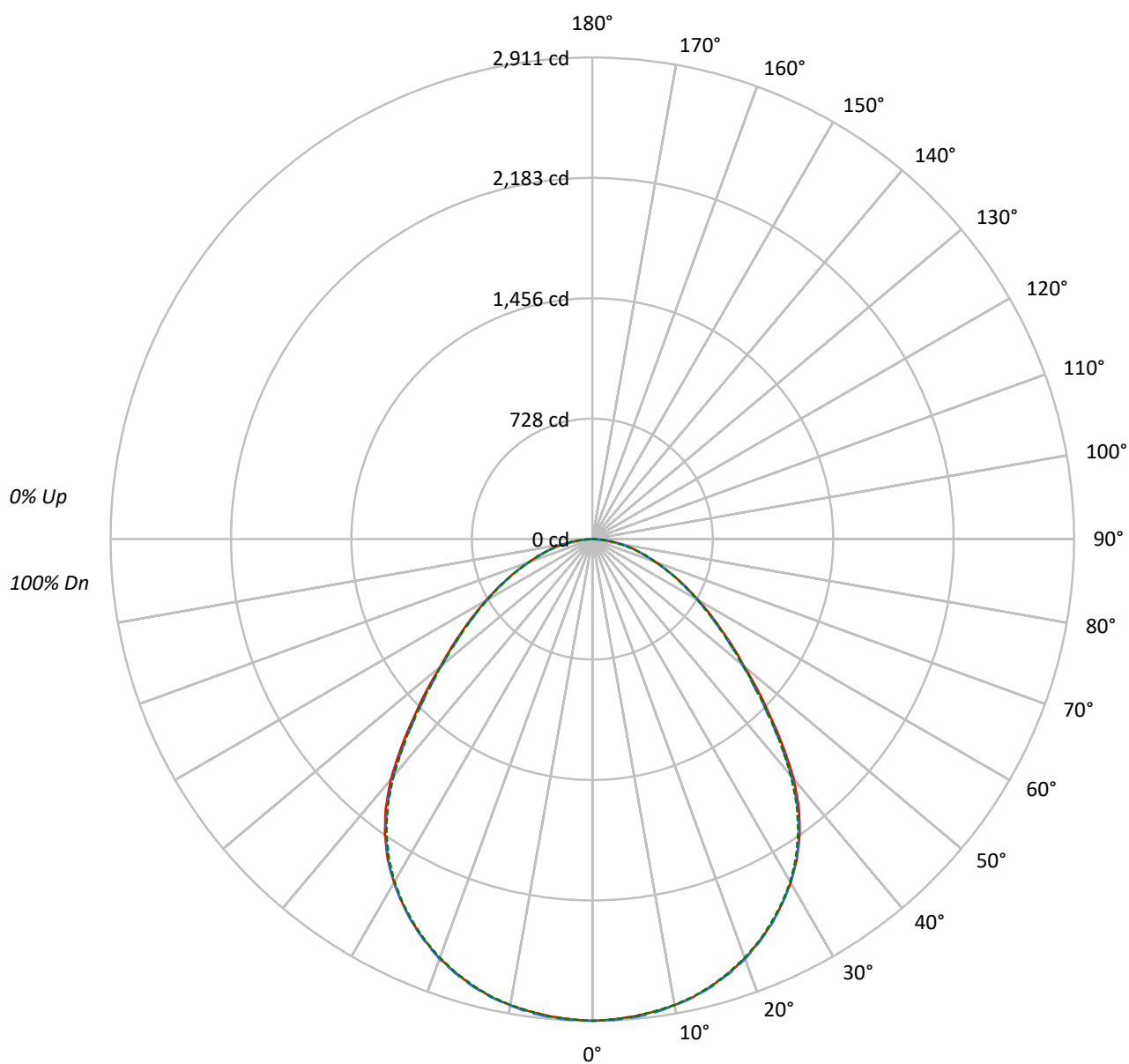
Lumens per Lamp: N/A
Luminaire Lumens: 6560.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7834	7834	7834
5°	7820	7836	7825
10°	7814	7820	7808
15°	7782	7794	7777
20°	7722	7734	7710
25°	7614	7620	7595
30°	7448	7448	7428
35°	7175	7154	7120
40°	6649	6576	6554
45°	5811	5716	5740
50°	5017	4956	4982
55°	4459	4391	4401
60°	3992	3936	3936
65°	3578	3552	3565
70°	3219	3186	3219
75°	2986	2943	2986
80°	2786	2754	2658
85°	2362	2362	2106

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5811 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	4.2
10°-20°	788.7	12.0
20°-30°	1180.1	18.0
30°-40°	1352.1	20.6
40°-50°	1169.4	17.8
50°-60°	846.3	12.9
60°-70°	557.4	8.5
70°-80°	303.4	4.6
80°-90°	87.0	1.3
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°	2244.4	34.2
0°-40°	3596.5	54.8
0°-60°	5612.2	85.6
0°-90°	6560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2895	2901	2901	2901	2897	275
15°	2794	2796	2798	2802	2792	788
25°	2564	2564	2566	2568	2558	1179
35°	2184	2182	2178	2176	2168	1357
45°	1527	1523	1502	1500	1508	1182
55°	950	946	936	930	938	856
65°	562	566	558	554	560	561
75°	287	287	283	283	287	306
85°	76	76	76	78	68	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2905.1	2911.3	2909.3	2911.3	2905.1
5°	2894.8	2901.0	2901.0	2901.0	2896.9
7.5°	2880.3	2884.5	2886.5	2888.6	2878.3
10°	2859.7	2863.8	2861.7	2865.9	2857.6
12.5°	2832.8	2832.8	2834.9	2839.0	2830.7
15°	2793.5	2795.6	2797.7	2801.8	2791.5
17.5°	2748.1	2750.2	2752.2	2754.3	2746.0
20°	2696.4	2696.4	2700.6	2702.6	2692.3
22.5°	2632.4	2632.4	2636.5	2642.7	2630.3
25°	2564.2	2564.2	2566.3	2568.3	2558.0
27.5°	2483.6	2483.6	2485.7	2491.9	2479.5
30°	2396.8	2394.8	2396.8	2398.9	2390.6
32.5°	2299.7	2297.6	2295.6	2297.6	2287.3
35°	2184.0	2181.9	2177.8	2175.7	2167.5
37.5°	2049.7	2045.6	2037.3	2037.3	2029.0
40°	1892.7	1882.3	1872.0	1867.9	1865.8
42.5°	1710.8	1702.6	1688.1	1686.0	1686.0
45°	1526.9	1522.8	1502.1	1500.1	1508.3
47.5°	1361.6	1351.3	1332.7	1328.6	1341.0
50°	1198.4	1200.5	1183.9	1177.8	1190.1
52.5°	1070.3	1066.2	1051.7	1047.6	1057.9
55°	950.5	946.3	936.0	929.8	938.1
57.5°	841.0	838.9	828.6	826.5	830.6
60°	741.8	739.7	731.4	729.4	731.4
62.5°	648.8	648.8	640.5	636.4	642.6
65°	562.0	566.1	557.9	553.7	559.9
67.5°	483.5	487.6	479.4	475.2	483.5
70°	409.1	413.2	405.0	400.8	409.1
72.5°	345.1	347.1	340.9	338.9	349.2
75°	287.2	287.2	283.1	283.1	287.2
77.5°	233.5	231.4	229.4	229.4	225.2
80°	179.8	177.7	177.7	177.7	171.5
82.5°	128.1	124.0	126.0	128.1	117.8
85°	76.5	76.5	76.5	78.5	68.2
87.5°	31.0	31.0	28.9	31.0	26.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)