

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: P1050243

Luminaire Tested: PTR-14-80-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050243
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-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

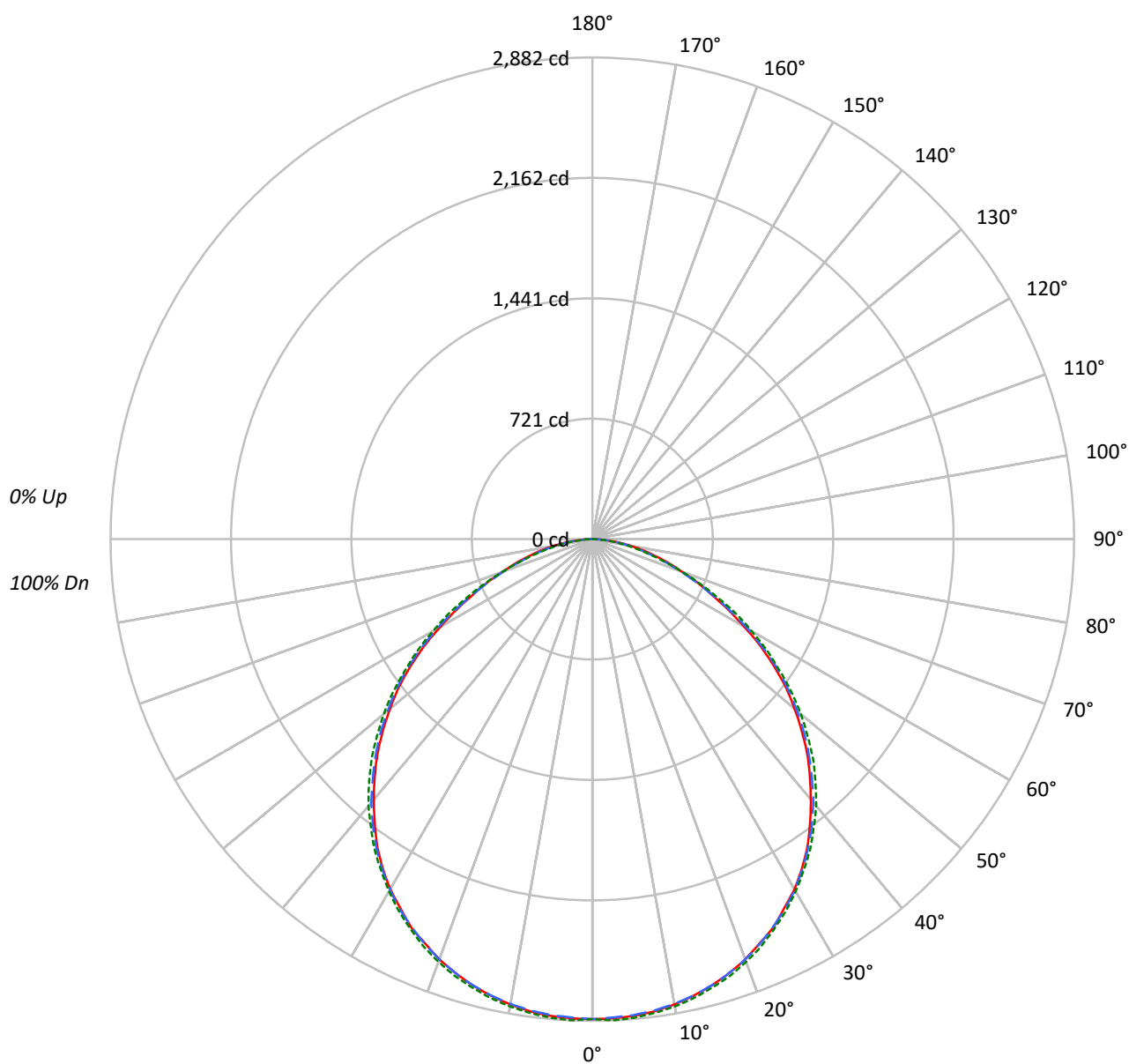
Lumens per Lamp: N/A
Luminaire Lumens: 7570.6 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050243

CATALOG NUMBER: PTR-14-80-PL1-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050243

CATALOG NUMBER: PTR-14-80-PL1-L840-UNV-STD-W

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°	7728	7728	7728
5°	7735	7720	7763
10°	7725	7717	7760
15°	7702	7699	7737
20°	7663	7663	7706
25°	7611	7601	7642
30°	7515	7526	7562
35°	7372	7400	7460
40°	7143	7226	7318
45°	6920	6978	7112
50°	6615	6687	6820
55°	6231	6331	6405
60°	5652	5773	5916
65°	5020	5074	5279
70°	4487	4396	4505
75°	4049	3815	3739
80°	3679	3415	3031
85°	3115	2828	2436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7112 cd/sqm

TEST NUMBER: P1050243

CATALOG NUMBER: PTR-14-80-PL1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	3.6
10°-20°	781.4	10.3
20°-30°	1181.9	15.6
30°-40°	1408.8	18.6
40°-50°	1416.6	18.7
50°-60°	1202.3	15.9
60°-70°	800.5	10.6
70°-80°	399.7	5.3
80°-90°	106.9	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°	2235.7	29.5
0°-40°	3644.5	48.1
0°-60°	6263.4	82.7
0°-90°	7570.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7570.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2872	2872	2872	2872	2872	
5°	2864	2864	2858	2871	2874	272
15°	2764	2768	2763	2775	2777	780
25°	2564	2564	2560	2572	2574	1179
35°	2244	2246	2253	2268	2271	1400
45°	1818	1822	1834	1858	1869	1399
55°	1328	1337	1349	1362	1365	1184
65°	788	795	797	809	829	790
75°	389	384	367	358	360	418
85°	101	99	92	86	79	117
90°	0	0	0	0	0	

TEST NUMBER: P1050243

CATALOG NUMBER: PTR-14-80-PL1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2872.0	2872.0	2872.0	2872.0	2872.0
2.5°	2869.7	2872.0	2864.3	2878.2	2881.7
5°	2863.5	2864.3	2858.1	2870.9	2874.0
7.5°	2849.6	2850.8	2844.2	2858.1	2860.1
10°	2827.2	2829.5	2824.1	2836.9	2839.9
12.5°	2798.6	2801.7	2796.3	2810.2	2812.5
15°	2764.5	2767.6	2763.4	2775.0	2777.3
17.5°	2722.8	2725.1	2722.8	2733.6	2739.8
20°	2676.0	2676.0	2676.0	2685.7	2691.1
22.5°	2617.6	2623.0	2620.7	2633.5	2638.9
25°	2563.5	2563.5	2560.0	2572.0	2573.9
27.5°	2487.7	2496.2	2495.4	2505.9	2508.2
30°	2418.5	2420.8	2422.0	2429.3	2433.6
32.5°	2334.6	2336.5	2340.0	2350.4	2351.6
35°	2244.1	2246.4	2252.6	2268.5	2270.8
37.5°	2138.9	2150.5	2156.0	2173.0	2174.9
40°	2033.4	2040.7	2057.0	2074.8	2083.3
42.5°	1925.9	1934.4	1944.1	1968.4	1976.2
45°	1818.4	1821.5	1833.5	1857.9	1868.7
47.5°	1699.3	1709.0	1719.4	1740.7	1747.3
50°	1580.2	1590.7	1597.3	1616.2	1629.0
52.5°	1460.0	1469.7	1477.0	1488.6	1501.4
55°	1328.1	1337.4	1349.4	1362.2	1365.3
57.5°	1194.0	1204.4	1212.1	1225.7	1239.6
60°	1050.1	1062.1	1072.6	1085.3	1099.2
62.5°	916.4	921.4	932.2	953.5	973.6
65°	788.4	795.0	796.9	808.9	829.0
67.5°	682.1	682.1	672.4	676.6	699.1
70°	570.3	566.1	558.7	554.5	572.6
72.5°	479.8	474.4	458.6	451.2	460.9
75°	389.4	383.9	366.9	358.4	359.6
77.5°	312.8	304.3	290.4	275.7	272.6
80°	237.4	233.9	220.4	206.5	195.6
82.5°	168.2	160.8	153.1	144.6	136.1
85°	100.9	99.0	91.6	86.2	78.9
87.5°	41.4	41.4	39.4	37.1	35.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)