

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: P1050390

Luminaire Tested: PTR-14-80-PR1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-80-PR1-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

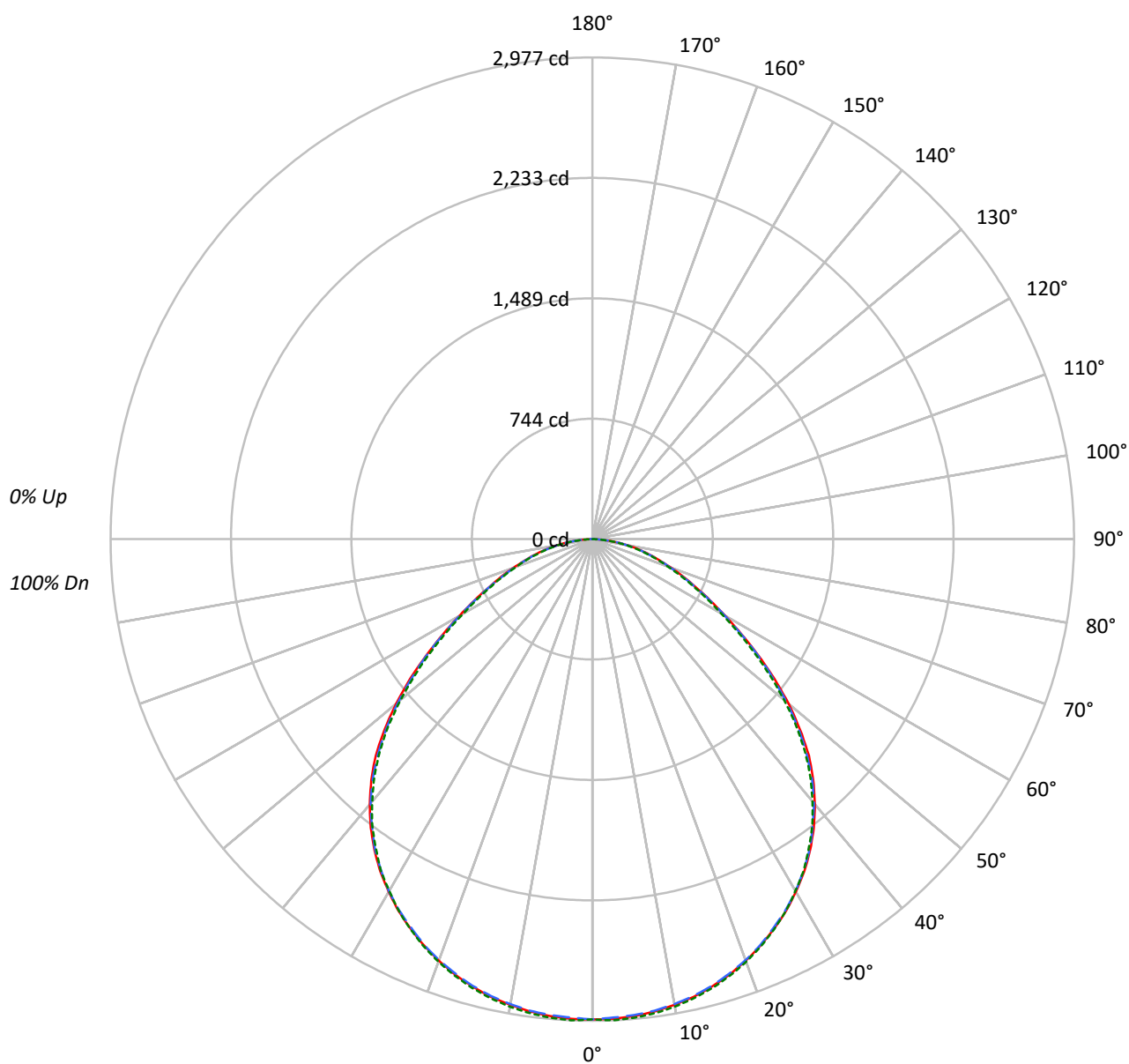
Lumens per Lamp: N/A
Luminaire Lumens: 7507.2 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050390

CATALOG NUMBER: PTR-14-80-PR1-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050390

CATALOG NUMBER: PTR-14-80-PR1-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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7988	7988	7988
5°	7996	7978	8022
10°	7989	7975	8018
15°	7974	7962	7999
20°	7941	7931	7962
25°	7889	7869	7898
30°	7819	7809	7799
35°	7711	7693	7661
40°	7516	7487	7433
45°	7203	7122	7070
50°	6627	6553	6472
55°	5865	5840	5726
60°	5097	5078	4941
65°	4492	4465	4376
70°	4076	4018	3936
75°	3774	3686	3617
80°	3445	3397	3282
85°	2720	2699	2590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7203 cd/sqm

TEST NUMBER: P1050390

CATALOG NUMBER: PTR-14-80-PR1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	3.8
10°-20°	808.2	10.8
20°-30°	1224.4	16.3
30°-40°	1461.6	19.5
40°-50°	1437.4	19.1
50°-60°	1111.0	14.8
60°-70°	700.5	9.3
70°-80°	378.9	5.0
80°-90°	103.5	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°	2314.2	30.8
0°-40°	3775.8	50.3
0°-60°	6324.2	84.2
0°-90°	7507.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7507.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2968	2968	2968	2968	2968	
5°	2960	2961	2953	2966	2970	281
15°	2862	2863	2858	2867	2871	808
25°	2657	2659	2650	2659	2660	1224
35°	2347	2348	2342	2339	2332	1466
45°	1893	1885	1871	1857	1858	1449
55°	1250	1261	1245	1225	1220	1122
65°	706	707	701	689	687	710
75°	363	359	354	356	348	386
85°	88	89	87	88	84	105
90°	0	0	0	0	0	

TEST NUMBER: P1050390

CATALOG NUMBER: PTR-14-80-PR1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2968.5	2968.5	2968.5	2968.5	2968.5
2.5°	2967.3	2968.5	2960.0	2973.9	2977.0
5°	2960.0	2961.1	2953.4	2966.1	2969.6
7.5°	2944.9	2947.2	2939.9	2952.6	2955.7
10°	2923.6	2925.9	2918.6	2931.3	2934.4
12.5°	2897.3	2898.1	2891.9	2903.5	2906.6
15°	2862.2	2862.9	2857.9	2867.2	2871.4
17.5°	2821.6	2822.7	2815.4	2827.0	2828.9
20°	2772.9	2773.6	2769.4	2779.0	2780.2
22.5°	2718.3	2720.7	2714.1	2722.6	2723.8
25°	2656.9	2658.8	2650.3	2658.8	2660.0
27.5°	2591.9	2592.7	2585.4	2591.9	2590.8
30°	2516.2	2522.7	2513.1	2510.8	2510.0
32.5°	2437.7	2438.5	2429.2	2426.9	2431.1
35°	2347.2	2348.0	2341.8	2338.7	2332.2
37.5°	2248.3	2248.3	2236.3	2234.4	2233.2
40°	2139.7	2138.5	2131.2	2123.8	2116.1
42.5°	2021.4	2023.7	2008.6	1995.9	1993.9
45°	1892.6	1885.3	1871.4	1856.7	1857.8
47.5°	1740.7	1742.7	1723.7	1711.7	1708.6
50°	1583.0	1583.0	1565.2	1552.5	1545.9
52.5°	1418.3	1419.5	1402.5	1385.5	1382.0
55°	1250.2	1260.6	1244.8	1224.6	1220.4
57.5°	1092.8	1101.3	1086.3	1065.0	1063.8
60°	947.1	947.9	943.6	923.5	918.1
62.5°	822.6	817.2	814.9	804.4	797.9
65°	705.5	706.6	701.2	689.3	687.3
67.5°	610.8	609.6	600.0	592.6	588.4
70°	518.0	514.9	510.7	504.5	500.2
72.5°	435.3	435.3	431.8	429.9	422.5
75°	363.0	358.7	354.5	356.4	347.9
77.5°	293.8	289.5	286.1	281.8	279.9
80°	222.3	218.0	219.2	212.6	211.8
82.5°	154.2	154.2	152.3	146.9	148.1
85°	88.1	89.3	87.4	88.1	83.9
87.5°	32.1	32.9	35.2	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)