

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: P1050290

Luminaire Tested: PTR-14-80-PLG-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050290
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-14-80-PLG-L830-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

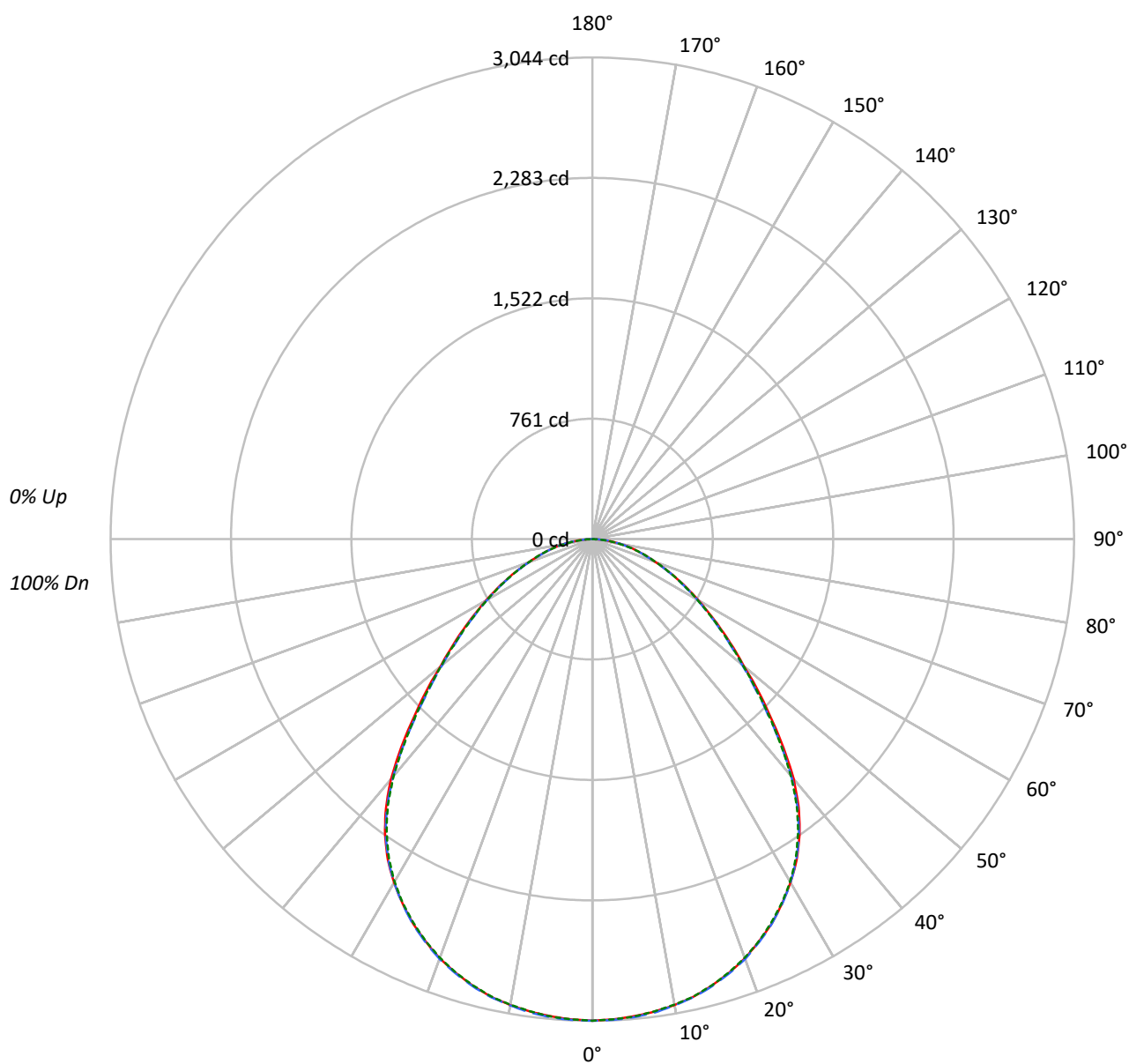
Lumens per Lamp: N/A
Luminaire Lumens: 6858.6 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8191	8191	8191
5°	8176	8193	8181
10°	8170	8176	8164
15°	8137	8149	8131
20°	8073	8086	8061
25°	7960	7967	7941
30°	7787	7787	7766
35°	7501	7480	7444
40°	6951	6875	6852
45°	6075	5977	6001
50°	5246	5182	5209
55°	4662	4591	4601
60°	4174	4116	4116
65°	3741	3714	3727
70°	3365	3331	3365
75°	3122	3078	3122
80°	2912	2879	2779
85°	2467	2467	2201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.2	4.2
10°-20°	824.6	12.0
20°-30°	1233.8	18.0
30°-40°	1413.6	20.6
40°-50°	1222.6	17.8
50°-60°	884.8	12.9
60°-70°	582.8	8.5
70°-80°	317.3	4.6
80°-90°	90.9	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°	2346.6	34.2
0°-40°	3760.2	54.8
0°-60°	5867.7	85.6
0°-90°	6858.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6858.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3044	3044	3044	3044	3044	
5°	3027	3033	3033	3033	3029	288
15°	2921	2923	2925	2929	2918	824
25°	2681	2681	2683	2685	2674	1233
35°	2283	2281	2277	2275	2266	1419
45°	1596	1592	1570	1568	1577	1236
55°	994	989	979	972	981	894
65°	588	592	583	579	585	587
75°	300	300	296	296	300	320
85°	80	80	80	82	71	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3043.8	3043.8	3043.8	3043.8	3043.8
2.5°	3037.4	3043.8	3041.7	3043.8	3037.4
5°	3026.6	3033.0	3033.0	3033.0	3028.7
7.5°	3011.4	3015.8	3017.9	3020.1	3009.3
10°	2989.8	2994.2	2992.0	2996.3	2987.7
12.5°	2961.7	2961.7	2963.9	2968.2	2959.6
15°	2920.7	2922.9	2925.0	2929.3	2918.5
17.5°	2873.2	2875.3	2877.5	2879.7	2871.0
20°	2819.2	2819.2	2823.5	2825.6	2814.8
22.5°	2752.2	2752.2	2756.5	2763.0	2750.0
25°	2680.9	2680.9	2683.1	2685.2	2674.4
27.5°	2596.7	2596.7	2598.8	2605.3	2592.3
30°	2505.9	2503.8	2505.9	2508.1	2499.4
32.5°	2404.4	2402.2	2400.1	2402.2	2391.4
35°	2283.4	2281.3	2276.9	2274.8	2266.1
37.5°	2143.0	2138.7	2130.0	2130.0	2121.4
40°	1978.8	1968.0	1957.2	1952.9	1950.7
42.5°	1788.7	1780.1	1765.0	1762.8	1762.8
45°	1596.4	1592.1	1570.5	1568.4	1577.0
47.5°	1423.6	1412.8	1393.4	1389.1	1402.0
50°	1253.0	1255.1	1237.8	1231.4	1244.3
52.5°	1119.0	1114.7	1099.6	1095.3	1106.1
55°	993.7	989.4	978.6	972.1	980.8
57.5°	879.2	877.1	866.3	864.1	868.4
60°	775.5	773.4	764.7	762.6	764.7
62.5°	678.3	678.3	669.7	665.4	671.8
65°	587.6	591.9	583.3	579.0	585.4
67.5°	505.5	509.8	501.2	496.9	505.5
70°	427.7	432.1	423.4	419.1	427.7
72.5°	360.8	362.9	356.4	354.3	365.1
75°	300.3	300.3	296.0	296.0	300.3
77.5°	244.1	242.0	239.8	239.8	235.5
80°	187.9	185.8	185.8	185.8	179.3
82.5°	133.9	129.6	131.8	133.9	123.1
85°	79.9	79.9	79.9	82.1	71.3
87.5°	32.4	32.4	30.2	32.4	28.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)