

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: P1050278

Luminaire Tested: PTR-14-20-PLG-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050278
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-14-20-PLG-L850-UNV-STD-W
Description: 2000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

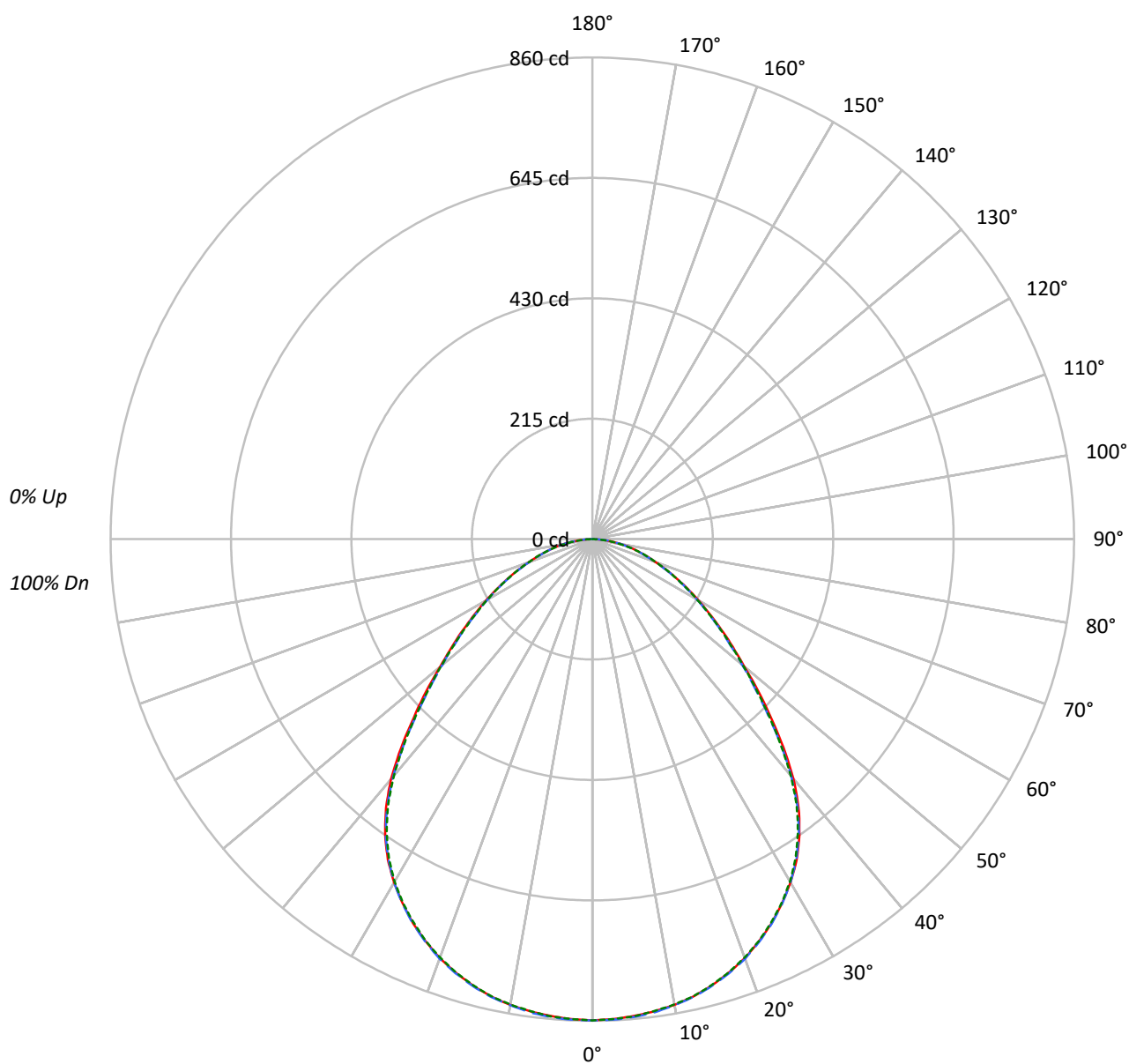
Lumens per Lamp: N/A
Luminaire Lumens: 1936.8 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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°	2313	2313	2313
5°	2308	2314	2310
10°	2307	2309	2305
15°	2298	2301	2296
20°	2280	2283	2276
25°	2248	2250	2242
30°	2199	2199	2193
35°	2118	2112	2102
40°	1963	1942	1935
45°	1716	1688	1695
50°	1481	1463	1471
55°	1316	1296	1300
60°	1179	1162	1162
65°	1056	1049	1053
70°	950	941	950
75°	882	869	882
80°	823	814	823
85°	698	698	621

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1716 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	4.2
10°-20°	232.9	12.0
20°-30°	348.4	18.0
30°-40°	399.2	20.6
40°-50°	345.2	17.8
50°-60°	249.9	12.9
60°-70°	164.6	8.5
70°-80°	89.6	4.6
80°-90°	25.7	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°	662.6	34.2
0°-40°	1061.8	54.8
0°-60°	1656.9	85.6
0°-90°	1936.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	855	856	856	856	855	81
15°	825	825	826	827	824	233
25°	757	757	758	758	755	348
35°	645	644	643	642	640	401
45°	451	450	444	443	445	349
55°	281	279	276	274	277	253
65°	166	167	165	164	165	166
75°	85	85	84	84	85	90
85°	23	23	23	23	20	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.5	859.5	859.5	859.5	859.5
2.5°	857.7	859.5	858.9	859.5	857.7
5°	854.6	856.5	856.5	856.5	855.3
7.5°	850.4	851.6	852.2	852.8	849.8
10°	844.3	845.5	844.9	846.1	843.7
12.5°	836.3	836.3	837.0	838.2	835.7
15°	824.8	825.4	826.0	827.2	824.1
17.5°	811.3	811.9	812.6	813.2	810.7
20°	796.1	796.1	797.3	797.9	794.9
22.5°	777.2	777.2	778.4	780.2	776.6
25°	757.0	757.0	757.7	758.3	755.2
27.5°	733.2	733.2	733.9	735.7	732.0
30°	707.6	707.0	707.6	708.2	705.8
32.5°	679.0	678.3	677.7	678.3	675.3
35°	644.8	644.2	643.0	642.4	639.9
37.5°	605.1	603.9	601.5	601.5	599.0
40°	558.8	555.7	552.7	551.5	550.9
42.5°	505.1	502.7	498.4	497.8	497.8
45°	450.8	449.6	443.5	442.9	445.3
47.5°	402.0	399.0	393.5	392.2	395.9
50°	353.8	354.4	349.5	347.7	351.4
52.5°	316.0	314.8	310.5	309.3	312.3
55°	280.6	279.4	276.3	274.5	277.0
57.5°	248.3	247.7	244.6	244.0	245.2
60°	219.0	218.4	215.9	215.3	215.9
62.5°	191.5	191.5	189.1	187.9	189.7
65°	165.9	167.1	164.7	163.5	165.3
67.5°	142.7	144.0	141.5	140.3	142.7
70°	120.8	122.0	119.6	118.3	120.8
72.5°	101.9	102.5	100.7	100.0	103.1
75°	84.8	84.8	83.6	83.6	84.8
77.5°	68.9	68.3	67.7	67.7	66.5
80°	53.1	52.5	52.5	52.5	50.6
82.5°	37.8	36.6	37.2	37.8	34.8
85°	22.6	22.6	22.6	23.2	20.1
87.5°	9.2	9.2	8.5	9.2	7.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)