

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: P1050814

Luminaire Tested: 24PTR-80-PLG-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050814
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: 24PTR-80-PLG-L850-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

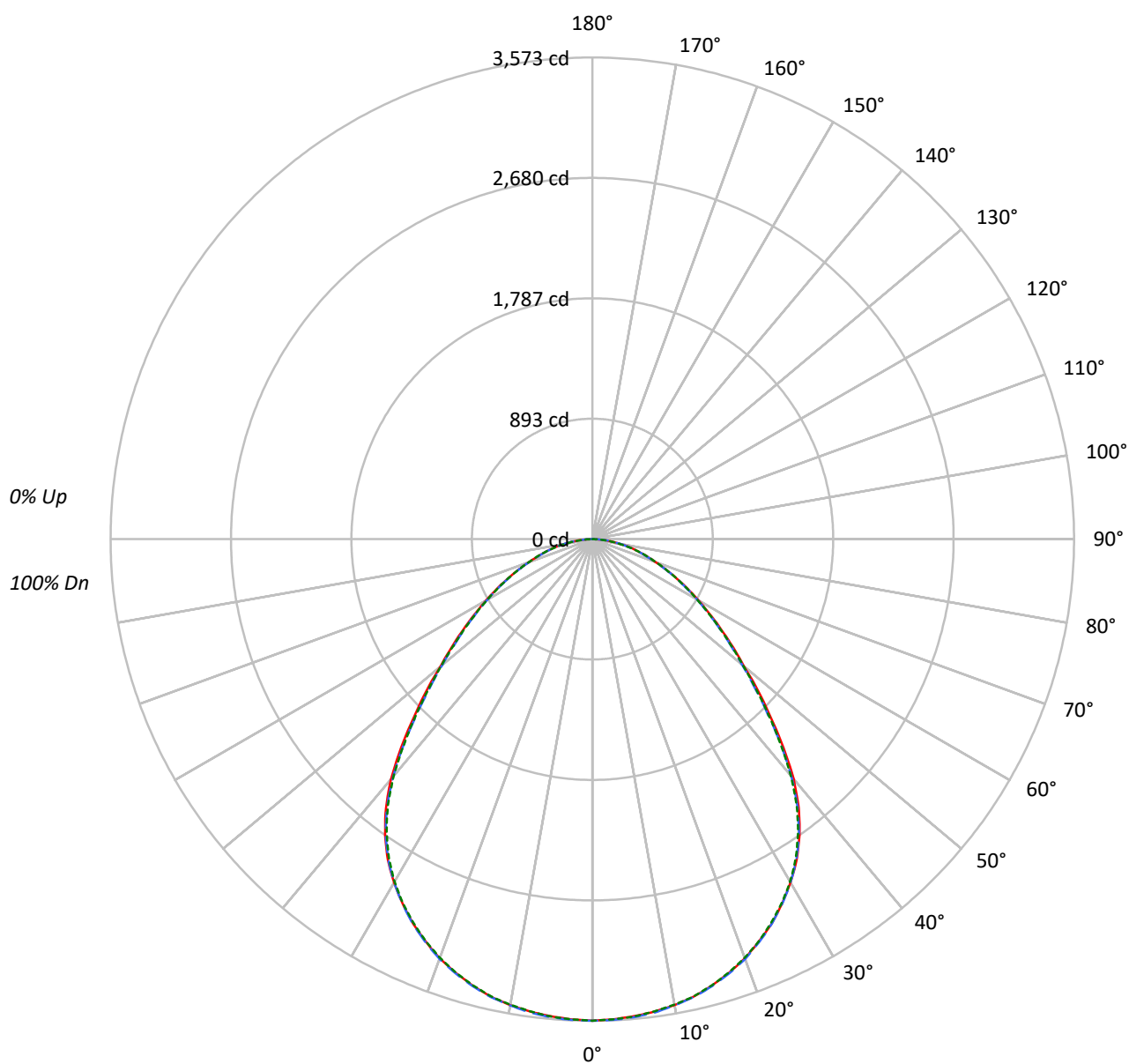
Lumens per Lamp: N/A
Luminaire Lumens: 8050.5 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68
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°	4807	4807	4807
5°	4798	4808	4801
10°	4795	4798	4791
15°	4775	4782	4772
20°	4738	4745	4731
25°	4672	4675	4660
30°	4570	4570	4558
35°	4402	4390	4369
40°	4080	4035	4022
45°	3566	3508	3522
50°	3078	3041	3057
55°	2736	2695	2700
60°	2450	2415	2415
65°	2196	2180	2188
70°	1975	1955	1975
75°	1832	1806	1832
80°	1709	1690	1631
85°	1448	1448	1292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3566 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	4.2
10°-20°	967.9	12.0
20°-30°	1448.2	18.0
30°-40°	1659.3	20.6
40°-50°	1435.0	17.8
50°-60°	1038.6	12.9
60°-70°	684.1	8.5
70°-80°	372.4	4.6
80°-90°	106.7	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°	2754.4	34.2
0°-40°	4413.7	54.8
0°-60°	6887.3	85.6
0°-90°	8050.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8050.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3573	3573	3573	3573	3573	
5°	3552	3560	3560	3560	3555	338
15°	3428	3431	3433	3438	3426	967
25°	3147	3147	3149	3152	3139	1447
35°	2680	2678	2673	2670	2660	1665
45°	1874	1869	1843	1841	1851	1451
55°	1166	1161	1149	1141	1151	1050
65°	690	695	685	680	687	689
75°	352	352	347	347	352	375
85°	94	94	94	96	84	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3572.8	3572.8	3572.8	3572.8	3572.8
2.5°	3565.2	3572.8	3570.2	3572.8	3565.2
5°	3552.5	3560.1	3560.1	3560.1	3555.0
7.5°	3534.7	3539.8	3542.3	3544.9	3532.2
10°	3509.4	3514.5	3511.9	3517.0	3506.8
12.5°	3476.4	3476.4	3479.0	3484.0	3473.9
15°	3428.2	3430.8	3433.3	3438.4	3425.7
17.5°	3372.5	3375.0	3377.5	3380.1	3369.9
20°	3309.1	3309.1	3314.1	3316.7	3304.0
22.5°	3230.5	3230.5	3235.5	3243.1	3227.9
25°	3146.8	3146.8	3149.3	3151.8	3139.2
27.5°	3047.9	3047.9	3050.4	3058.0	3042.8
30°	2941.4	2938.9	2941.4	2943.9	2933.8
32.5°	2822.2	2819.7	2817.1	2819.7	2807.0
35°	2680.2	2677.7	2672.6	2670.1	2659.9
37.5°	2515.4	2510.3	2500.2	2500.2	2490.0
40°	2322.7	2310.0	2297.3	2292.3	2289.7
42.5°	2099.5	2089.4	2071.6	2069.1	2069.1
45°	1873.9	1868.8	1843.4	1840.9	1851.0
47.5°	1671.0	1658.3	1635.5	1630.4	1645.7
50°	1470.7	1473.2	1452.9	1445.3	1460.6
52.5°	1313.5	1308.4	1290.7	1285.6	1298.3
55°	1166.4	1161.3	1148.7	1141.1	1151.2
57.5°	1032.0	1029.5	1016.8	1014.3	1019.3
60°	910.3	907.8	897.6	895.1	897.6
62.5°	796.2	796.2	786.1	781.0	788.6
65°	689.7	694.8	684.6	679.6	687.2
67.5°	593.3	598.4	588.3	583.2	593.3
70°	502.1	507.1	497.0	491.9	502.1
72.5°	423.5	426.0	418.4	415.9	428.5
75°	352.5	352.5	347.4	347.4	352.5
77.5°	286.5	284.0	281.5	281.5	276.4
80°	220.6	218.1	218.1	218.1	210.5
82.5°	157.2	152.1	154.7	157.2	144.5
85°	93.8	93.8	93.8	96.4	83.7
87.5°	38.0	38.0	35.5	38.0	33.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)