

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: P1050808

Luminaire Tested: 24PTR-35-PLG-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050808
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-35-PLG-L850-UNV-STD-W
Description: 3500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

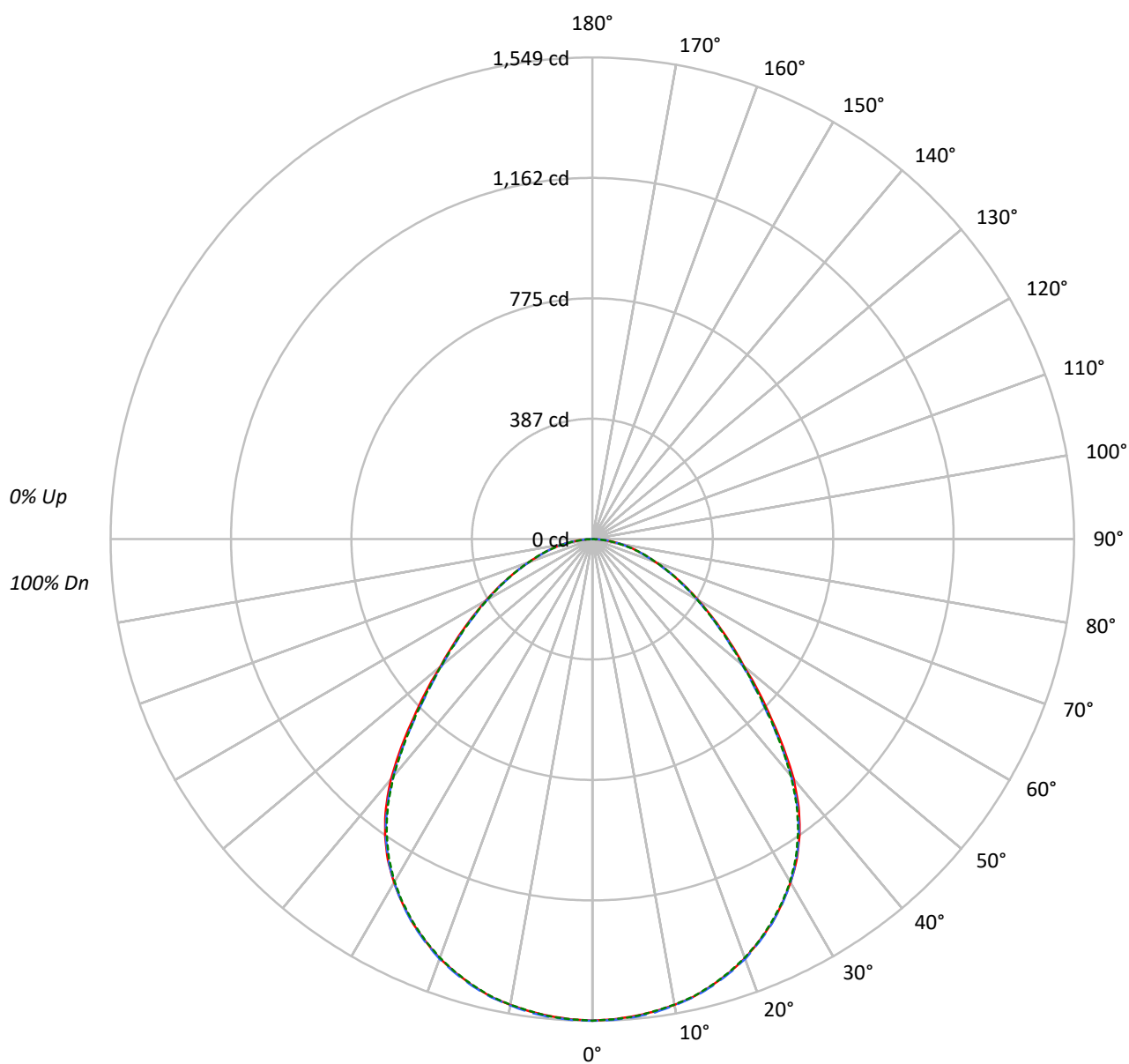
Lumens per Lamp: N/A
Luminaire Lumens: 3490.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2084	2084	2084
5°	2080	2084	2081
10°	2078	2080	2077
15°	2070	2073	2069
20°	2054	2057	2051
25°	2025	2027	2020
30°	1981	1981	1976
35°	1908	1903	1894
40°	1769	1749	1743
45°	1546	1521	1527
50°	1335	1319	1325
55°	1186	1168	1171
60°	1062	1047	1047
65°	952	945	948
70°	856	848	856
75°	794	783	794
80°	741	732	707
85°	628	628	560

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	4.2
10°-20°	419.6	12.0
20°-30°	627.8	18.0
30°-40°	719.3	20.6
40°-50°	622.1	17.8
50°-60°	450.2	12.9
60°-70°	296.6	8.5
70°-80°	161.4	4.6
80°-90°	46.3	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°	1194.1	34.2
0°-40°	1913.4	54.8
0°-60°	2985.7	85.6
0°-90°	3490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1540	1543	1543	1543	1541	146
15°	1486	1487	1488	1491	1485	419
25°	1364	1364	1365	1366	1361	627
35°	1162	1161	1159	1158	1153	722
45°	812	810	799	798	802	629
55°	506	504	498	495	499	455
65°	299	301	297	295	298	299
75°	153	153	151	151	153	163
85°	41	41	41	42	36	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.8	1548.8	1548.8	1548.8	1548.8
2.5°	1545.5	1548.8	1547.7	1548.8	1545.5
5°	1540.0	1543.3	1543.3	1543.3	1541.1
7.5°	1532.3	1534.5	1535.6	1536.7	1531.2
10°	1521.3	1523.5	1522.4	1524.6	1520.2
12.5°	1507.1	1507.1	1508.2	1510.4	1506.0
15°	1486.2	1487.3	1488.4	1490.6	1485.1
17.5°	1462.0	1463.1	1464.2	1465.3	1460.9
20°	1434.5	1434.5	1436.7	1437.8	1432.3
22.5°	1400.4	1400.4	1402.6	1405.9	1399.3
25°	1364.2	1364.2	1365.3	1366.4	1360.9
27.5°	1321.3	1321.3	1322.4	1325.7	1319.1
30°	1275.1	1274.0	1275.1	1276.2	1271.8
32.5°	1223.5	1222.4	1221.3	1222.4	1216.9
35°	1161.9	1160.8	1158.6	1157.5	1153.1
37.5°	1090.4	1088.2	1083.8	1083.8	1079.5
40°	1006.9	1001.4	995.9	993.7	992.6
42.5°	910.2	905.8	898.1	897.0	897.0
45°	812.3	810.1	799.1	798.0	802.4
47.5°	724.4	718.9	709.0	706.8	713.4
50°	637.6	638.7	629.9	626.6	633.2
52.5°	569.4	567.2	559.5	557.3	562.8
55°	505.6	503.5	498.0	494.7	499.1
57.5°	447.4	446.3	440.8	439.7	441.9
60°	394.6	393.5	389.1	388.0	389.1
62.5°	345.2	345.2	340.8	338.6	341.9
65°	299.0	301.2	296.8	294.6	297.9
67.5°	257.2	259.4	255.0	252.8	257.2
70°	217.6	219.8	215.5	213.3	217.6
72.5°	183.6	184.7	181.4	180.3	185.8
75°	152.8	152.8	150.6	150.6	152.8
77.5°	124.2	123.1	122.0	122.0	119.8
80°	95.6	94.5	94.5	94.5	91.2
82.5°	68.2	66.0	67.1	68.2	62.7
85°	40.7	40.7	40.7	41.8	36.3
87.5°	16.5	16.5	15.4	16.5	14.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)