

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: P1050799

Luminaire Tested: 24PTR-45-PLG-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050799
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-45-PLG-L840-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

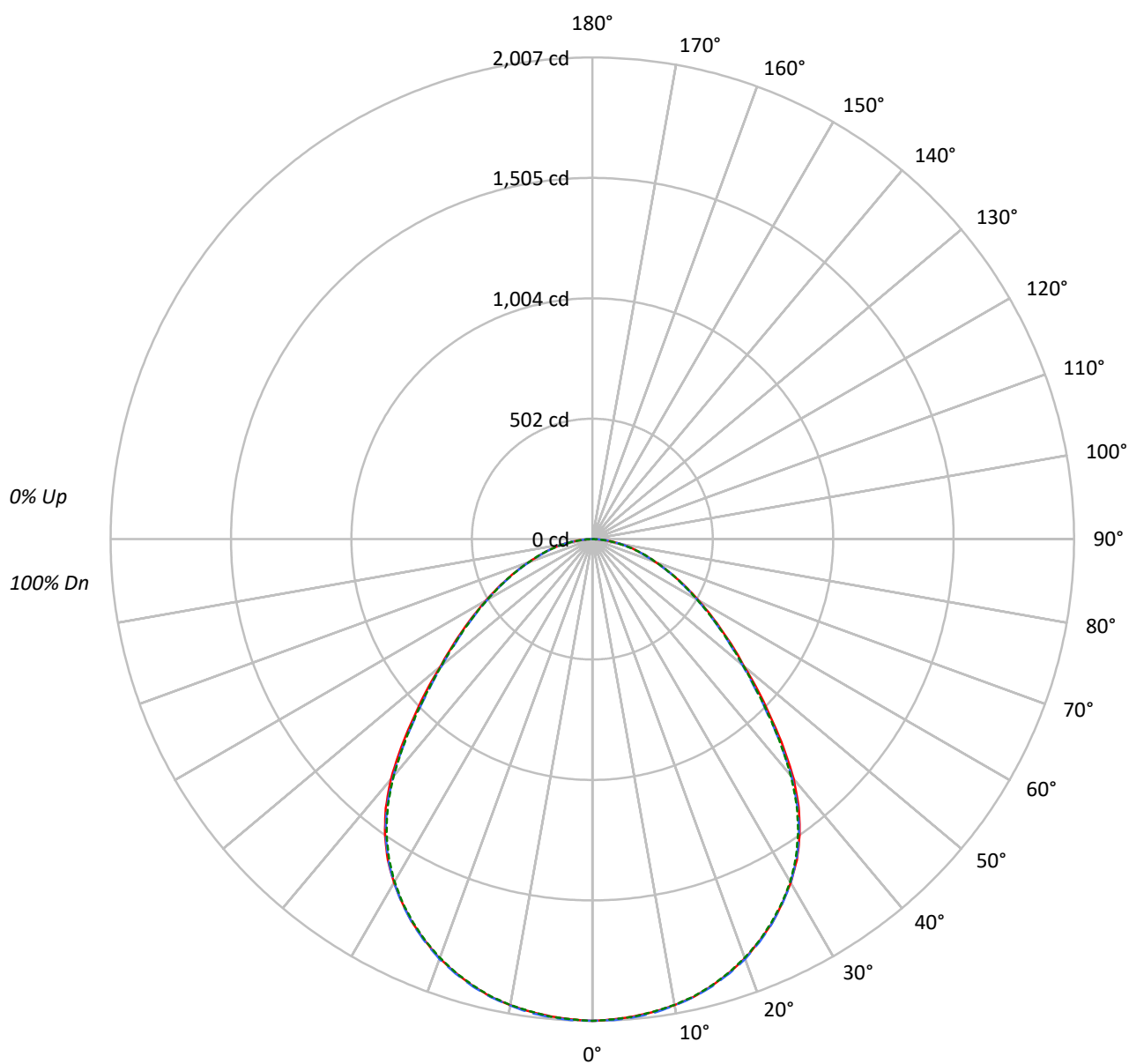
Lumens per Lamp: N/A
Luminaire Lumens: 4523.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	2701	2701	2701
5°	2696	2701	2698
10°	2694	2696	2692
15°	2683	2687	2681
20°	2662	2666	2658
25°	2625	2627	2618
30°	2567	2567	2561
35°	2473	2466	2455
40°	2292	2267	2259
45°	2003	1971	1979
50°	1730	1709	1718
55°	1537	1514	1517
60°	1376	1357	1357
65°	1234	1224	1229
70°	1110	1098	1110
75°	1029	1015	1029
80°	960	949	916
85°	814	814	726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	4.2
10°-20°	543.8	12.0
20°-30°	813.7	18.0
30°-40°	932.2	20.6
40°-50°	806.3	17.8
50°-60°	583.5	12.9
60°-70°	384.3	8.5
70°-80°	209.2	4.6
80°-90°	60.0	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°	1547.5	34.2
0°-40°	2479.7	54.8
0°-60°	3869.5	85.6
0°-90°	4523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2007	2007	2007	2007	2007	
5°	1996	2000	2000	2000	1997	190
15°	1926	1928	1929	1932	1925	543
25°	1768	1768	1769	1771	1764	813
35°	1506	1504	1502	1500	1494	935
45°	1053	1050	1036	1034	1040	815
55°	655	652	645	641	647	590
65°	388	390	385	382	386	387
75°	198	198	195	195	198	211
85°	53	53	53	54	47	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2007.3	2007.3	2007.3	2007.3	2007.3
2.5°	2003.0	2007.3	2005.8	2007.3	2003.0
5°	1995.9	2000.1	2000.1	2000.1	1997.3
7.5°	1985.9	1988.7	1990.2	1991.6	1984.5
10°	1971.6	1974.5	1973.1	1975.9	1970.2
12.5°	1953.1	1953.1	1954.5	1957.4	1951.7
15°	1926.1	1927.5	1928.9	1931.8	1924.6
17.5°	1894.7	1896.1	1897.6	1899.0	1893.3
20°	1859.1	1859.1	1862.0	1863.4	1856.3
22.5°	1814.9	1814.9	1817.8	1822.1	1813.5
25°	1767.9	1767.9	1769.4	1770.8	1763.7
27.5°	1712.4	1712.4	1713.8	1718.1	1709.5
30°	1652.5	1651.1	1652.5	1654.0	1648.3
32.5°	1585.6	1584.2	1582.7	1584.2	1577.0
35°	1505.8	1504.4	1501.5	1500.1	1494.4
37.5°	1413.2	1410.4	1404.7	1404.7	1399.0
40°	1304.9	1297.8	1290.7	1287.8	1286.4
42.5°	1179.6	1173.9	1163.9	1162.5	1162.5
45°	1052.8	1049.9	1035.7	1034.3	1040.0
47.5°	938.8	931.7	918.9	916.0	924.6
50°	826.3	827.7	816.3	812.0	820.6
52.5°	737.9	735.1	725.1	722.3	729.4
55°	655.3	652.5	645.3	641.1	646.8
57.5°	579.8	578.4	571.3	569.8	572.7
60°	511.4	510.0	504.3	502.9	504.3
62.5°	447.3	447.3	441.6	438.8	443.1
65°	387.5	390.3	384.6	381.8	386.1
67.5°	333.4	336.2	330.5	327.7	333.4
70°	282.1	284.9	279.2	276.4	282.1
72.5°	237.9	239.3	235.1	233.6	240.8
75°	198.0	198.0	195.2	195.2	198.0
77.5°	161.0	159.6	158.1	158.1	155.3
80°	123.9	122.5	122.5	122.5	118.2
82.5°	88.3	85.5	86.9	88.3	81.2
85°	52.7	52.7	52.7	54.1	47.0
87.5°	21.4	21.4	19.9	21.4	18.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)