

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: P1046858

Luminaire Tested: 22PTR-50-PLG-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PLG-L840-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

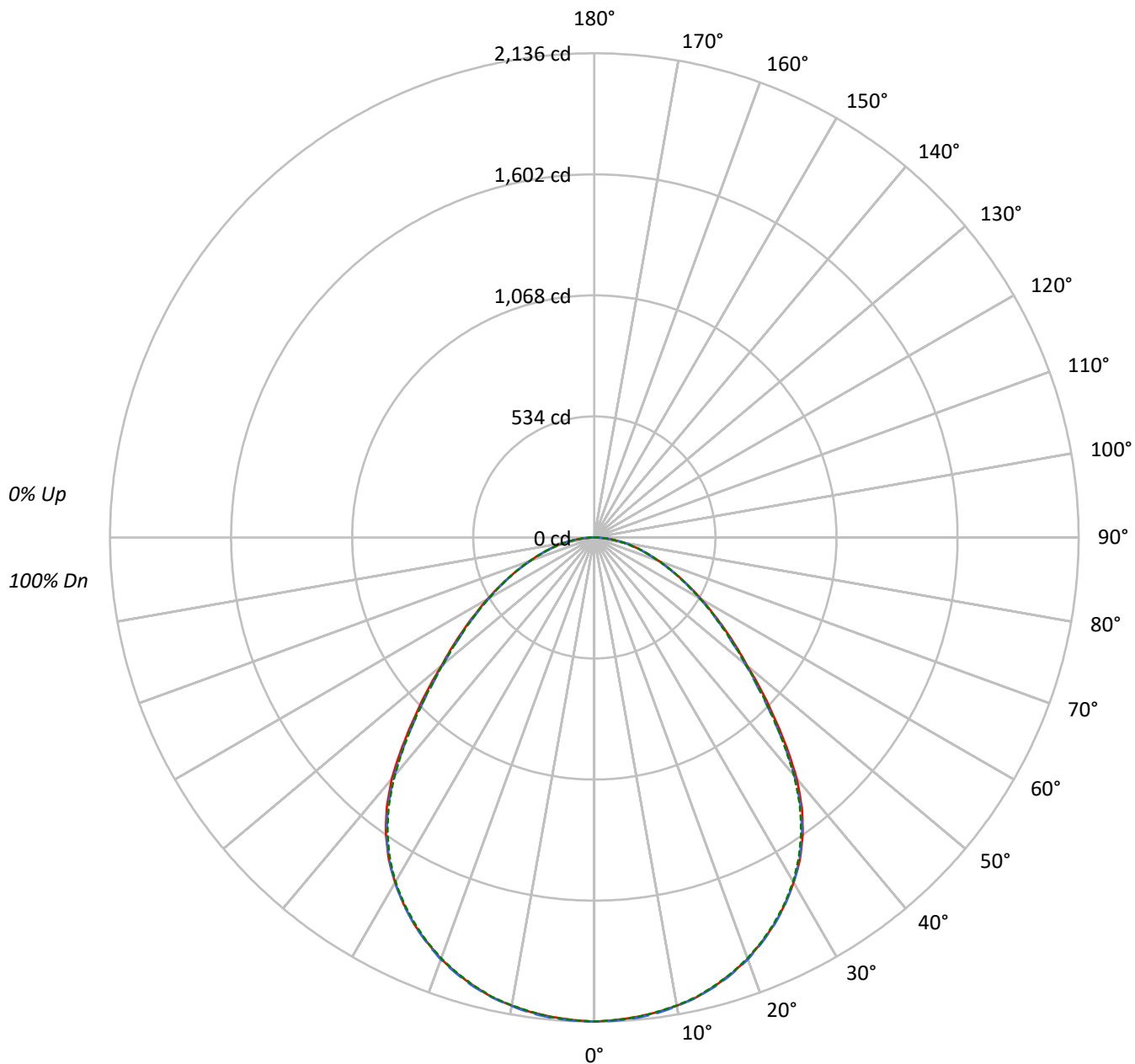
Lumens per Lamp: N/A
Luminaire Lumens: 4812.5 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 39
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	106	102	98	107	103	100	97		99	96	94			95	93	91			92
2	101	94	87	82	99	92	86	81		88	84	79			85	81	78			82
3	93	83	76	70	91	82	75	69		79	73	68			76	71	67			74
4	86	75	67	60	84	73	66	60		71	64	59			69	63	58			67
5	79	67	59	53	77	66	58	53		64	57	52			62	56	51			61
6	74	61	53	47	72	60	52	47		58	51	46			57	51	46			55
7	69	56	48	42	67	55	47	42		54	46	41			52	46	41			51
8	64	51	43	38	62	51	43	38		49	42	37			48	42	37			47
9	60	47	39	34	59	47	39	34		46	39	34			44	38	34			43
10	56	44	36	31	55	43	36	31		42	36	31			41	35	31			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: -
Vertical Angle: -
Luminance: -

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	4.2
10°-20°	578.6	12.0
20°-30°	865.7	18.0
30°-40°	991.9	20.6
40°-50°	857.9	17.8
50°-60°	620.8	12.9
60°-70°	408.9	8.5
70°-80°	222.6	4.6
80°-90°	63.8	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°	1646.5	34.2
0°-40°	2638.4	54.8
0°-60°	4117.1	85.6
0°-90°	4812.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4812.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2124	2128	2128	2128	2125	202
15°	2049	2051	2052	2055	2048	578
25°	1881	1881	1883	1884	1876	865
35°	1602	1601	1598	1596	1590	995
45°	1120	1117	1102	1100	1106	867
55°	697	694	687	682	688	628
65°	412	415	409	406	411	412
75°	211	211	208	208	211	224
85°	56	56	56	58	50	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.7	2135.7	2135.7	2135.7	2135.7
2.5°	2131.2	2135.7	2134.2	2135.7	2131.2
5°	2123.6	2128.2	2128.2	2128.2	2125.1
7.5°	2113.0	2116.0	2117.5	2119.1	2111.5
10°	2097.8	2100.9	2099.4	2102.4	2096.3
12.5°	2078.1	2078.1	2079.7	2082.7	2076.6
15°	2049.3	2050.9	2052.4	2055.4	2047.8
17.5°	2016.0	2017.5	2019.0	2020.5	2014.5
20°	1978.1	1978.1	1981.1	1982.6	1975.1
22.5°	1931.1	1931.1	1934.1	1938.7	1929.6
25°	1881.1	1881.1	1882.6	1884.1	1876.5
27.5°	1822.0	1822.0	1823.5	1828.0	1818.9
30°	1758.3	1756.8	1758.3	1759.8	1753.8
32.5°	1687.1	1685.5	1684.0	1685.5	1678.0
35°	1602.2	1600.7	1597.6	1596.1	1590.1
37.5°	1503.7	1500.6	1494.6	1494.6	1488.5
40°	1388.5	1380.9	1373.3	1370.3	1368.8
42.5°	1255.1	1249.0	1238.4	1236.9	1236.9
45°	1120.2	1117.1	1102.0	1100.5	1106.5
47.5°	998.9	991.3	977.7	974.6	983.7
50°	879.2	880.7	868.5	864.0	873.1
52.5°	785.2	782.1	771.5	768.5	776.1
55°	697.3	694.2	686.6	682.1	688.2
57.5°	616.9	615.4	607.8	606.3	609.3
60°	544.2	542.7	536.6	535.1	536.6
62.5°	476.0	476.0	469.9	466.9	471.4
65°	412.3	415.3	409.3	406.2	410.8
67.5°	354.7	357.7	351.7	348.6	354.7
70°	300.1	303.2	297.1	294.1	300.1
72.5°	253.1	254.7	250.1	248.6	256.2
75°	210.7	210.7	207.7	207.7	210.7
77.5°	171.3	169.8	168.3	168.3	165.2
80°	131.9	130.4	130.4	130.4	125.8
82.5°	94.0	90.9	92.5	94.0	86.4
85°	56.1	56.1	56.1	57.6	50.0
87.5°	22.7	22.7	21.2	22.7	19.7
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)