

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: P1046857

Luminaire Tested: 22PTR-45-PLG-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046857
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-45-PLG-L840-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

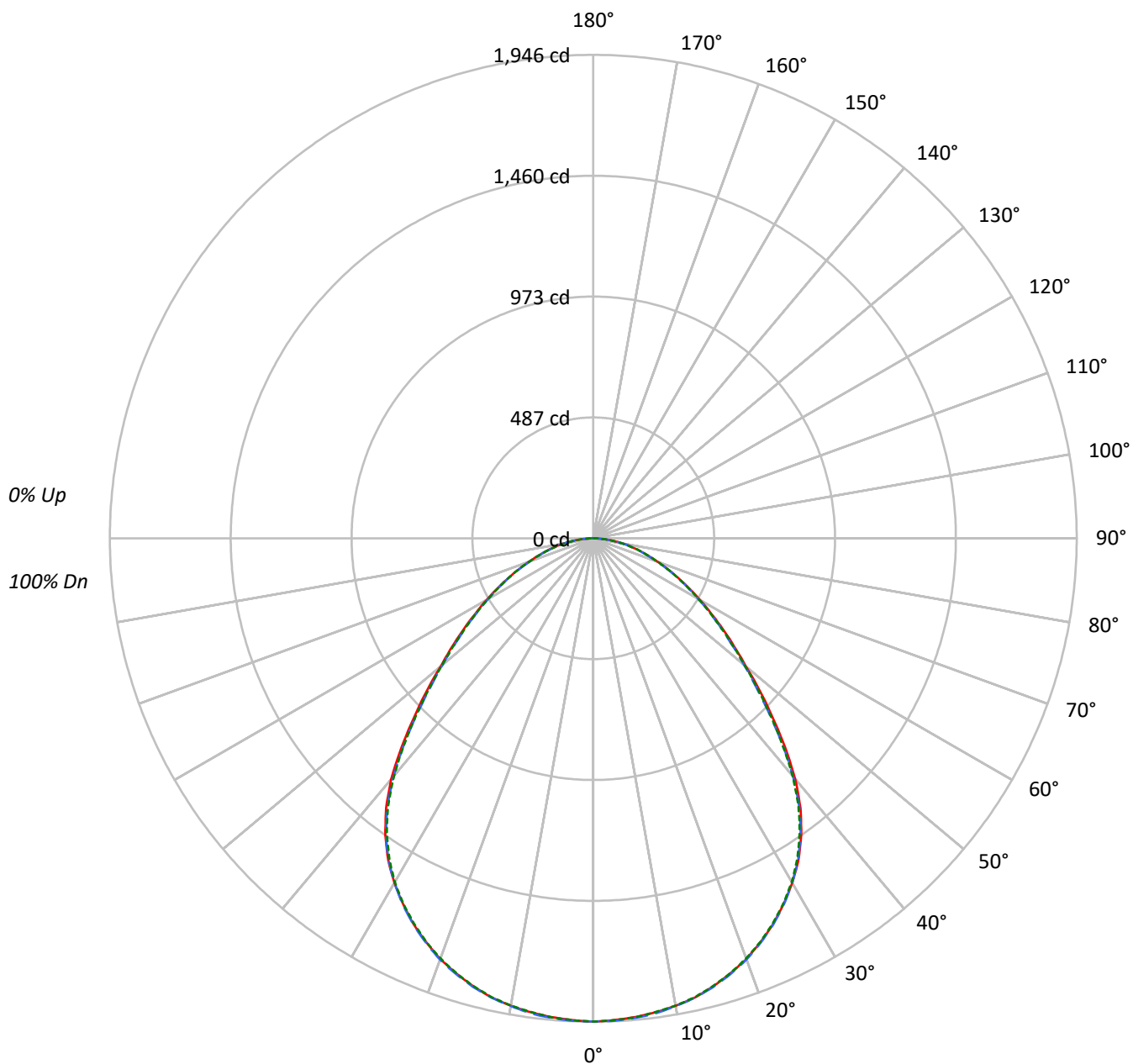
Lumens per Lamp: N/A
Luminaire Lumens: 4383.8 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98		107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	87	82		99	92	86	81		88	84	79		85	81	78		82	79	76
3	93	83	76	70		91	82	75	69		79	73	68		76	71	67		74	69	66
4	86	75	67	60		84	73	66	60		71	64	59		69	63	58		67	62	58
5	79	67	59	53		77	66	58	53		64	57	52		62	56	51		61	55	51
6	74	61	53	47		72	60	52	47		58	51	46		57	51	46		55	50	45
7	69	56	48	42		67	55	47	42		54	46	41		52	46	41		51	45	41
8	64	51	43	38		62	51	43	38		49	42	37		48	42	37		47	41	37
9	60	47	39	34		59	47	39	34		46	39	34		44	38	34		43	38	34
10	56	44	36	31		55	43	36	31		42	36	31		41	35	31		40	35	31

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°	184.2	4.2
10°-20°	527.1	12.0
20°-30°	788.6	18.0
30°-40°	903.5	20.6
40°-50°	781.4	17.8
50°-60°	565.6	12.9
60°-70°	372.5	8.5
70°-80°	202.8	4.6
80°-90°	58.1	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°	1499.9	34.2
0°-40°	2403.4	54.8
0°-60°	3750.4	85.6
0°-90°	4383.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4383.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1934	1939	1939	1939	1936	184
15°	1867	1868	1870	1872	1865	527
25°	1714	1714	1715	1716	1709	788
35°	1460	1458	1455	1454	1448	907
45°	1020	1018	1004	1002	1008	790
55°	635	632	626	621	627	572
65°	376	378	373	370	374	375
75°	192	192	189	189	192	204
85°	51	51	51	52	46	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1945.5	1945.5	1945.5	1945.5	1945.5
2.5°	1941.4	1945.5	1944.1	1945.5	1941.4
5°	1934.5	1938.6	1938.6	1938.6	1935.9
7.5°	1924.8	1927.6	1929.0	1930.3	1923.4
10°	1911.0	1913.8	1912.4	1915.1	1909.6
12.5°	1893.1	1893.1	1894.4	1897.2	1891.7
15°	1866.8	1868.2	1869.6	1872.3	1865.4
17.5°	1836.4	1837.8	1839.2	1840.6	1835.1
20°	1801.9	1801.9	1804.7	1806.1	1799.2
22.5°	1759.1	1759.1	1761.9	1766.0	1757.7
25°	1713.6	1713.6	1714.9	1716.3	1709.4
27.5°	1659.7	1659.7	1661.1	1665.2	1656.9
30°	1601.7	1600.3	1601.7	1603.1	1597.6
32.5°	1536.8	1535.4	1534.0	1535.4	1528.5
35°	1459.5	1458.1	1455.3	1454.0	1448.4
37.5°	1369.7	1367.0	1361.5	1361.5	1355.9
40°	1264.8	1257.9	1251.0	1248.2	1246.8
42.5°	1143.3	1137.8	1128.1	1126.7	1126.7
45°	1020.4	1017.6	1003.8	1002.4	1008.0
47.5°	909.9	903.0	890.6	887.8	896.1
50°	800.9	802.2	791.2	787.0	795.3
52.5°	715.2	712.5	702.8	700.1	707.0
55°	635.2	632.4	625.5	621.4	626.9
57.5°	562.0	560.6	553.7	552.3	555.1
60°	495.7	494.3	488.8	487.4	488.8
62.5°	433.6	433.6	428.0	425.3	429.4
65°	375.6	378.3	372.8	370.0	374.2
67.5°	323.1	325.9	320.3	317.6	323.1
70°	273.4	276.2	270.6	267.9	273.4
72.5°	230.6	232.0	227.8	226.4	233.4
75°	191.9	191.9	189.2	189.2	191.9
77.5°	156.0	154.6	153.3	153.3	150.5
80°	120.1	118.7	118.7	118.7	114.6
82.5°	85.6	82.8	84.2	85.6	78.7
85°	51.1	51.1	51.1	52.5	45.6
87.5°	20.7	20.7	19.3	20.7	18.0
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°

(END OF REPORT)