

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: P1046947

Luminaire Tested: 22PTR-50-PR1-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PR1-L850-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

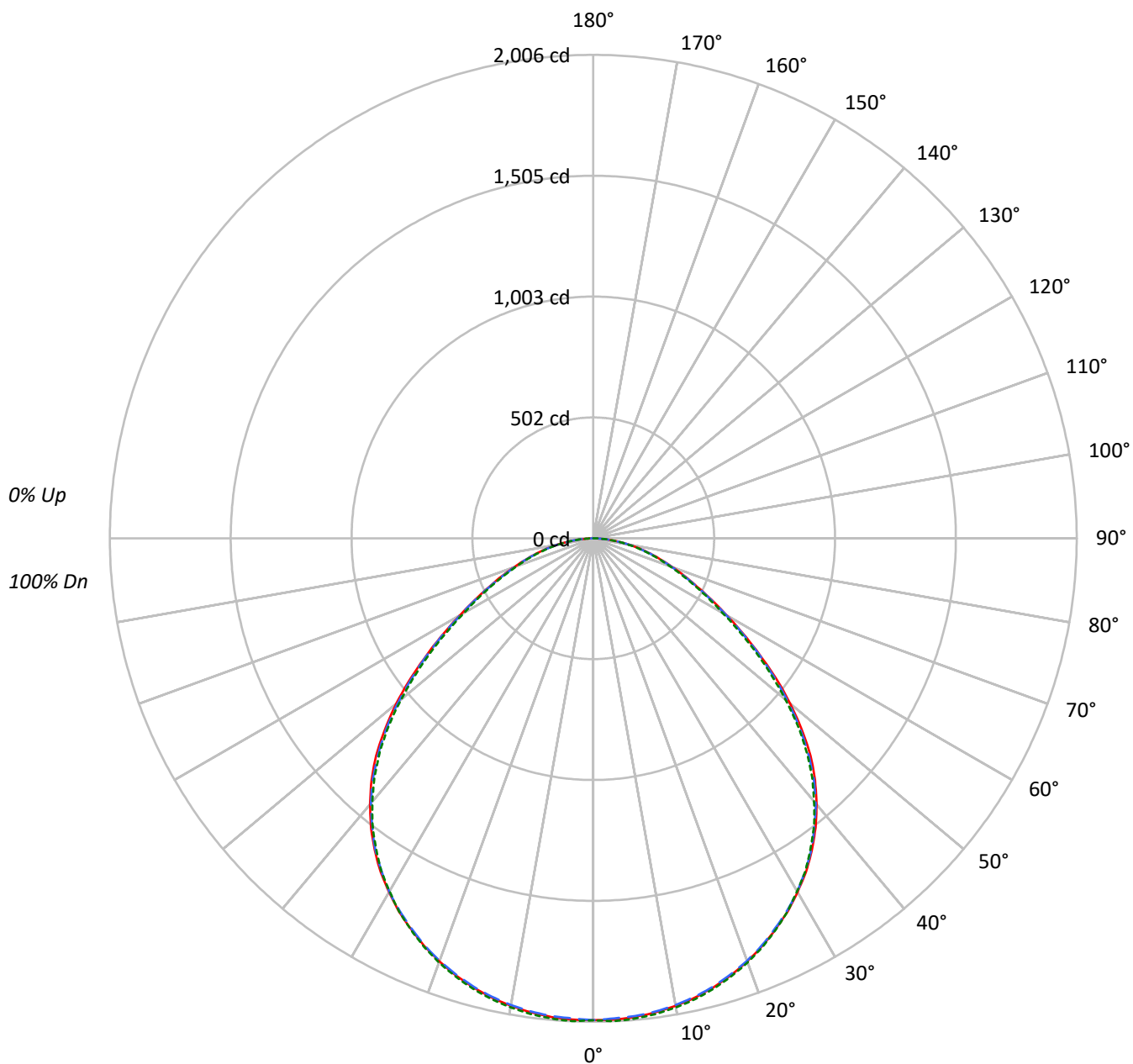
Lumens per Lamp: N/A
Luminaire Lumens: 5057.6 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

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°	189.7	3.8
10°-20°	544.5	10.8
20°-30°	824.9	16.3
30°-40°	984.7	19.5
40°-50°	968.4	19.1
50°-60°	748.5	14.8
60°-70°	472.0	9.3
70°-80°	255.3	5.0
80°-90°	69.7	1.4
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°	1559.0	30.8
0°-40°	2543.8	50.3
0°-60°	4260.6	84.2
0°-90°	5057.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5057.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	1994	1995	1990	1998	2001	190
15°	1928	1929	1925	1932	1934	544
25°	1790	1791	1786	1791	1792	825
35°	1581	1582	1578	1576	1571	987
45°	1275	1270	1261	1251	1252	976
55°	842	849	839	825	822	756
65°	475	476	472	464	463	478
75°	244	242	239	240	234	260
85°	59	60	59	59	56	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1999.8	1999.8	1999.8	1999.8	1999.8
2.5°	1999.1	1999.8	1994.1	2003.5	2005.6
5°	1994.1	1994.9	1989.7	1998.3	2000.6
7.5°	1984.0	1985.5	1980.6	1989.2	1991.2
10°	1969.6	1971.2	1966.2	1974.8	1976.9
12.5°	1951.9	1952.4	1948.3	1956.1	1958.2
15°	1928.2	1928.7	1925.4	1931.6	1934.5
17.5°	1900.9	1901.7	1896.7	1904.5	1905.8
20°	1868.1	1868.6	1865.7	1872.2	1873.0
22.5°	1831.3	1832.9	1828.5	1834.2	1835.0
25°	1789.9	1791.2	1785.5	1791.2	1792.0
27.5°	1746.2	1746.7	1741.8	1746.2	1745.4
30°	1695.1	1699.6	1693.1	1691.5	1691.0
32.5°	1642.3	1642.8	1636.5	1635.0	1637.8
35°	1581.3	1581.9	1577.7	1575.6	1571.2
37.5°	1514.7	1514.7	1506.6	1505.3	1504.5
40°	1441.5	1440.7	1435.8	1430.8	1425.6
42.5°	1361.8	1363.4	1353.2	1344.6	1343.3
45°	1275.1	1270.1	1260.7	1250.8	1251.6
47.5°	1172.7	1174.0	1161.3	1153.2	1151.1
50°	1066.5	1066.5	1054.5	1045.9	1041.5
52.5°	955.5	956.3	944.8	933.4	931.0
55°	842.2	849.3	838.6	825.0	822.2
57.5°	736.2	742.0	731.8	717.5	716.7
60°	638.1	638.6	635.7	622.2	618.5
62.5°	554.2	550.5	549.0	542.0	537.5
65°	475.3	476.1	472.4	464.3	463.0
67.5°	411.5	410.7	404.2	399.2	396.4
70°	349.0	346.9	344.0	339.9	337.0
72.5°	293.2	293.2	290.9	289.6	284.7
75°	244.5	241.7	238.8	240.1	234.4
77.5°	197.9	195.1	192.7	189.9	188.6
80°	149.7	146.9	147.7	143.2	142.7
82.5°	103.9	103.9	102.6	99.0	99.7
85°	59.4	60.2	58.9	59.4	56.5
87.5°	21.6	22.1	23.7	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°

(END OF REPORT)