

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: P1050877

Luminaire Tested: 24PTR-50-PP3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PP3-L840-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

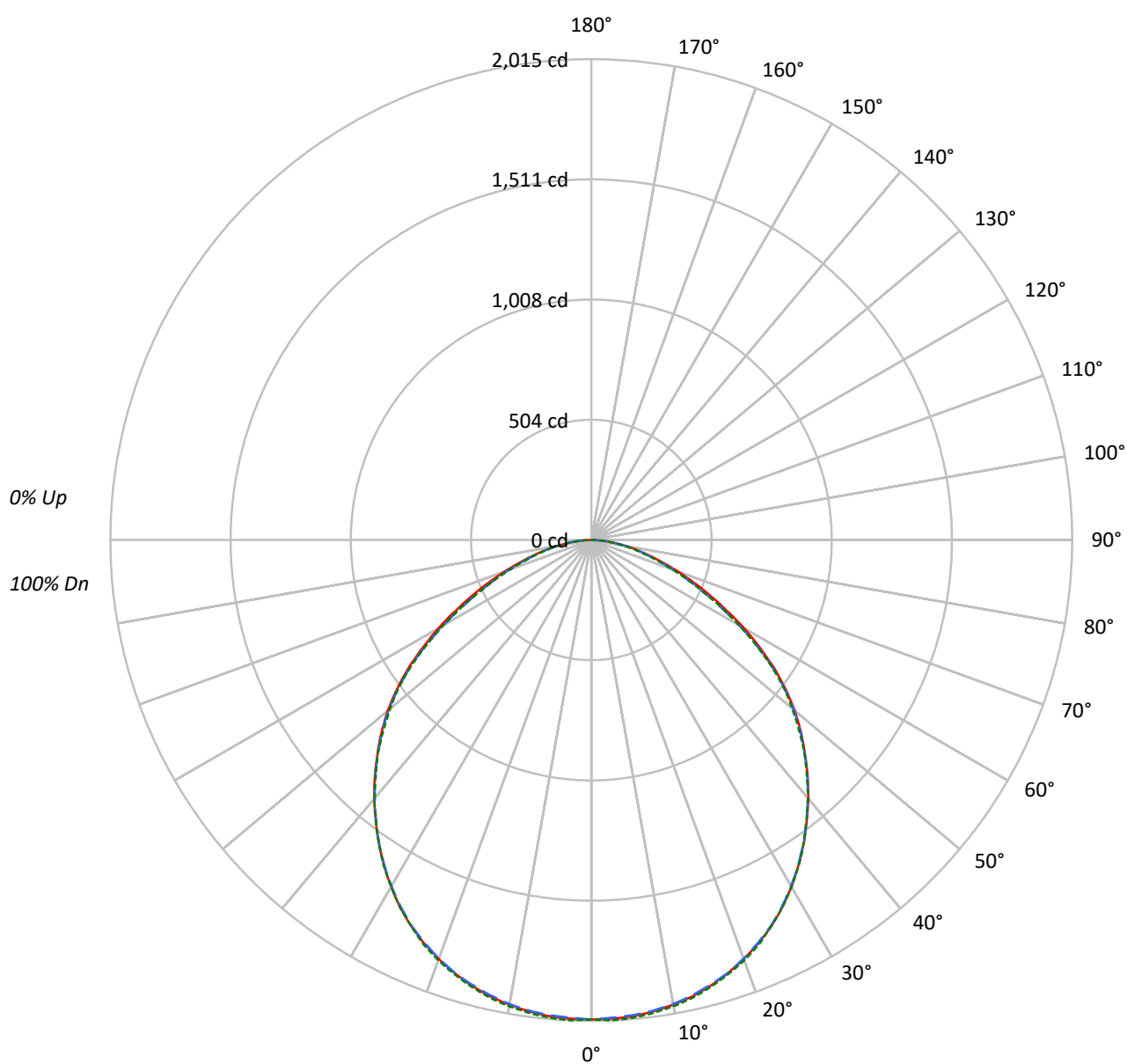
Lumens per Lamp: N/A
Luminaire Lumens: 5190.5 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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

TEST NUMBER: P1050877

CATALOG NUMBER: 24PTR-50-PP3-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050877

CATALOG NUMBER: 24PTR-50-PP3-L840-UNV-STD-W

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2703	2703	2703
5°	2705	2699	2714
10°	2702	2698	2711
15°	2693	2688	2700
20°	2675	2673	2684
25°	2651	2647	2650
30°	2607	2601	2607
35°	2550	2546	2549
40°	2485	2477	2483
45°	2410	2403	2406
50°	2329	2318	2302
55°	2193	2167	2160
60°	1990	1923	1926
65°	1748	1660	1657
70°	1511	1443	1426
75°	1307	1259	1232
80°	1158	1141	1090
85°	957	990	932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2418 cd/sqm

TEST NUMBER: P1050877

CATALOG NUMBER: 24PTR-50-PP3-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	3.7
10°-20°	545.8	10.5
20°-30°	821.7	15.8
30°-40°	969.8	18.7
40°-50°	975.4	18.8
50°-60°	823.4	15.9
60°-70°	528.8	10.2
70°-80°	263.0	5.1
80°-90°	72.1	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°	1558.0	30.0
0°-40°	2527.8	48.7
0°-60°	4326.6	83.4
0°-90°	5190.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5190.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	2003	2004	1999	2008	2009	190
15°	1933	1934	1929	1938	1938	545
25°	1786	1786	1783	1786	1785	822
35°	1552	1553	1550	1552	1552	970
45°	1266	1271	1263	1264	1264	977
55°	935	934	924	920	921	832
65°	549	541	521	516	521	547
75°	251	250	242	240	237	272
85°	62	64	64	60	60	73
90°	0	0	0	0	0	

TEST NUMBER: P1050877

CATALOG NUMBER: 24PTR-50-PP3-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2008.9	2008.9	2008.9	2008.9	2008.9
2.5°	2008.1	2008.9	2003.6	2013.1	2014.7
5°	2003.1	2003.6	1998.6	2008.1	2009.4
7.5°	1992.7	1993.5	1989.0	1997.8	1999.3
10°	1977.4	1979.7	1974.4	1982.7	1984.0
12.5°	1958.5	1959.3	1954.0	1963.6	1965.2
15°	1933.1	1933.6	1929.4	1938.1	1938.1
17.5°	1903.7	1904.5	1901.6	1909.0	1908.2
20°	1868.2	1870.3	1866.6	1871.6	1874.6
22.5°	1829.5	1830.3	1825.8	1832.4	1835.3
25°	1785.8	1786.3	1782.9	1786.3	1785.0
27.5°	1734.7	1736.0	1730.9	1734.7	1735.5
30°	1677.7	1681.4	1674.2	1677.2	1677.7
32.5°	1616.5	1618.6	1613.6	1614.4	1618.1
35°	1552.4	1553.2	1550.2	1551.6	1551.6
37.5°	1483.2	1486.1	1481.6	1483.7	1480.8
40°	1414.6	1411.7	1410.1	1411.7	1413.8
42.5°	1342.3	1343.1	1340.9	1339.3	1335.9
45°	1266.5	1271.0	1262.8	1264.4	1264.4
47.5°	1192.3	1192.8	1188.6	1184.1	1181.2
50°	1112.8	1112.8	1107.5	1104.1	1099.6
52.5°	1025.9	1024.6	1018.8	1015.0	1017.2
55°	934.8	934.0	923.9	920.2	921.0
57.5°	834.9	836.5	821.1	817.4	817.4
60°	739.5	732.1	714.6	709.5	715.9
62.5°	639.3	630.6	611.8	611.8	616.8
65°	549.0	541.0	521.4	516.1	520.6
67.5°	464.5	457.0	439.0	436.1	437.4
70°	384.2	377.8	366.7	360.1	362.5
72.5°	315.0	309.2	301.8	296.7	293.8
75°	251.4	250.1	242.2	239.8	236.9
77.5°	199.0	198.5	191.8	188.9	186.0
80°	149.4	148.6	147.3	142.8	140.7
82.5°	106.5	106.5	105.7	102.0	99.9
85°	62.0	64.1	64.1	60.4	60.4
87.5°	24.9	26.2	24.9	24.9	24.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)