

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: P1050866

Luminaire Tested: 24PTR-50-PP3-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050866
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-L835-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

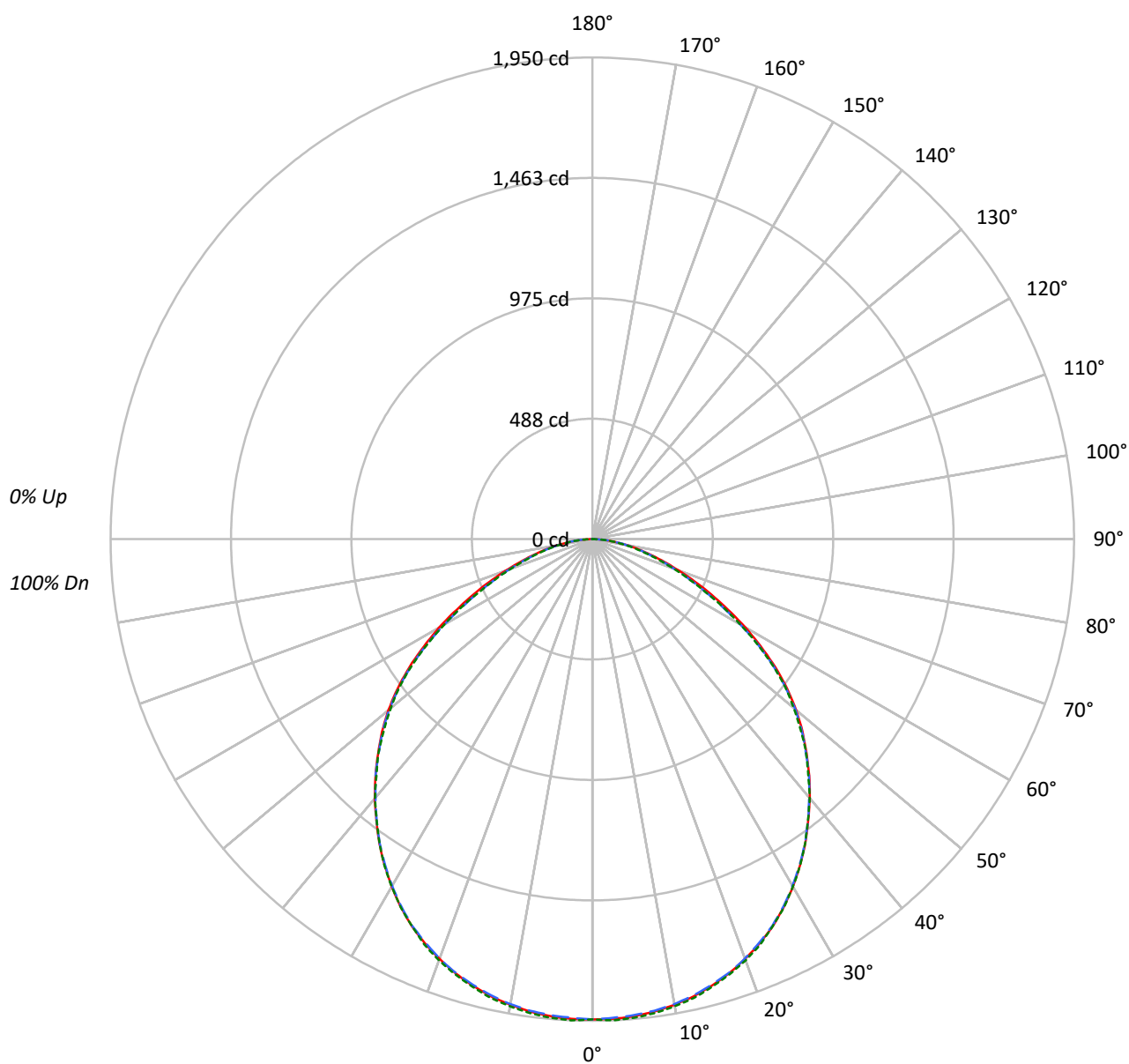
Lumens per Lamp: N/A
Luminaire Lumens: 5024.6 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	2617	2617	2617
5°	2619	2613	2627
10°	2615	2611	2624
15°	2607	2602	2613
20°	2589	2587	2598
25°	2566	2562	2565
30°	2523	2518	2523
35°	2468	2465	2467
40°	2405	2398	2404
45°	2333	2326	2329
50°	2255	2244	2228
55°	2123	2098	2092
60°	1926	1861	1865
65°	1692	1607	1605
70°	1463	1397	1380
75°	1265	1219	1192
80°	1121	1105	1055
85°	926	959	903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2341 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	3.7
10°-20°	528.3	10.5
20°-30°	795.4	15.8
30°-40°	938.8	18.7
40°-50°	944.2	18.8
50°-60°	797.1	15.9
60°-70°	511.9	10.2
70°-80°	254.6	5.1
80°-90°	69.8	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°	1508.2	30.0
0°-40°	2447.0	48.7
0°-60°	4188.3	83.4
0°-90°	5024.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5024.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1939	1940	1935	1944	1945	184
15°	1871	1872	1868	1876	1876	528
25°	1729	1729	1726	1729	1728	795
35°	1503	1504	1501	1502	1502	939
45°	1226	1230	1222	1224	1224	946
55°	905	904	894	891	892	805
65°	531	524	505	500	504	530
75°	243	242	234	232	229	263
85°	60	62	62	58	58	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1944.7	1944.7	1944.7	1944.7	1944.7
2.5°	1943.9	1944.7	1939.6	1948.8	1950.3
5°	1939.0	1939.6	1934.7	1943.9	1945.2
7.5°	1929.0	1929.8	1925.5	1933.9	1935.5
10°	1914.2	1916.5	1911.3	1919.3	1920.6
12.5°	1896.0	1896.7	1891.6	1900.8	1902.4
15°	1871.3	1871.8	1867.7	1876.2	1876.2
17.5°	1842.9	1843.6	1840.8	1848.0	1847.2
20°	1808.5	1810.5	1807.0	1811.8	1814.7
22.5°	1771.0	1771.8	1767.5	1773.9	1776.7
25°	1728.7	1729.2	1725.9	1729.2	1728.0
27.5°	1679.2	1680.5	1675.6	1679.2	1680.0
30°	1624.1	1627.7	1620.7	1623.6	1624.1
32.5°	1564.8	1566.9	1562.0	1562.8	1566.4
35°	1502.8	1503.5	1500.7	1502.0	1502.0
37.5°	1435.8	1438.6	1434.3	1436.3	1433.5
40°	1369.4	1366.6	1365.0	1366.6	1368.6
42.5°	1299.4	1300.1	1298.1	1296.5	1293.2
45°	1226.0	1230.4	1222.4	1224.0	1224.0
47.5°	1154.2	1154.7	1150.6	1146.2	1143.4
50°	1077.2	1077.2	1072.1	1068.8	1064.4
52.5°	993.1	991.8	986.2	982.6	984.7
55°	904.9	904.1	894.4	890.8	891.6
57.5°	808.2	809.7	794.9	791.3	791.3
60°	715.9	708.7	691.7	686.9	693.0
62.5°	618.9	610.4	592.2	592.2	597.1
65°	531.4	523.7	504.8	499.6	504.0
67.5°	449.6	442.4	425.0	422.2	423.5
70°	371.9	365.8	355.0	348.6	350.9
72.5°	305.0	299.3	292.1	287.3	284.4
75°	243.4	242.1	234.4	232.1	229.3
77.5°	192.6	192.1	185.7	182.9	180.1
80°	144.7	143.9	142.6	138.2	136.2
82.5°	103.1	103.1	102.3	98.7	96.7
85°	60.0	62.1	62.1	58.5	58.5
87.5°	24.1	25.4	24.1	24.1	23.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)