

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: P1050635

Luminaire Tested: 24PTR-50-PC3-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PC3-L835-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

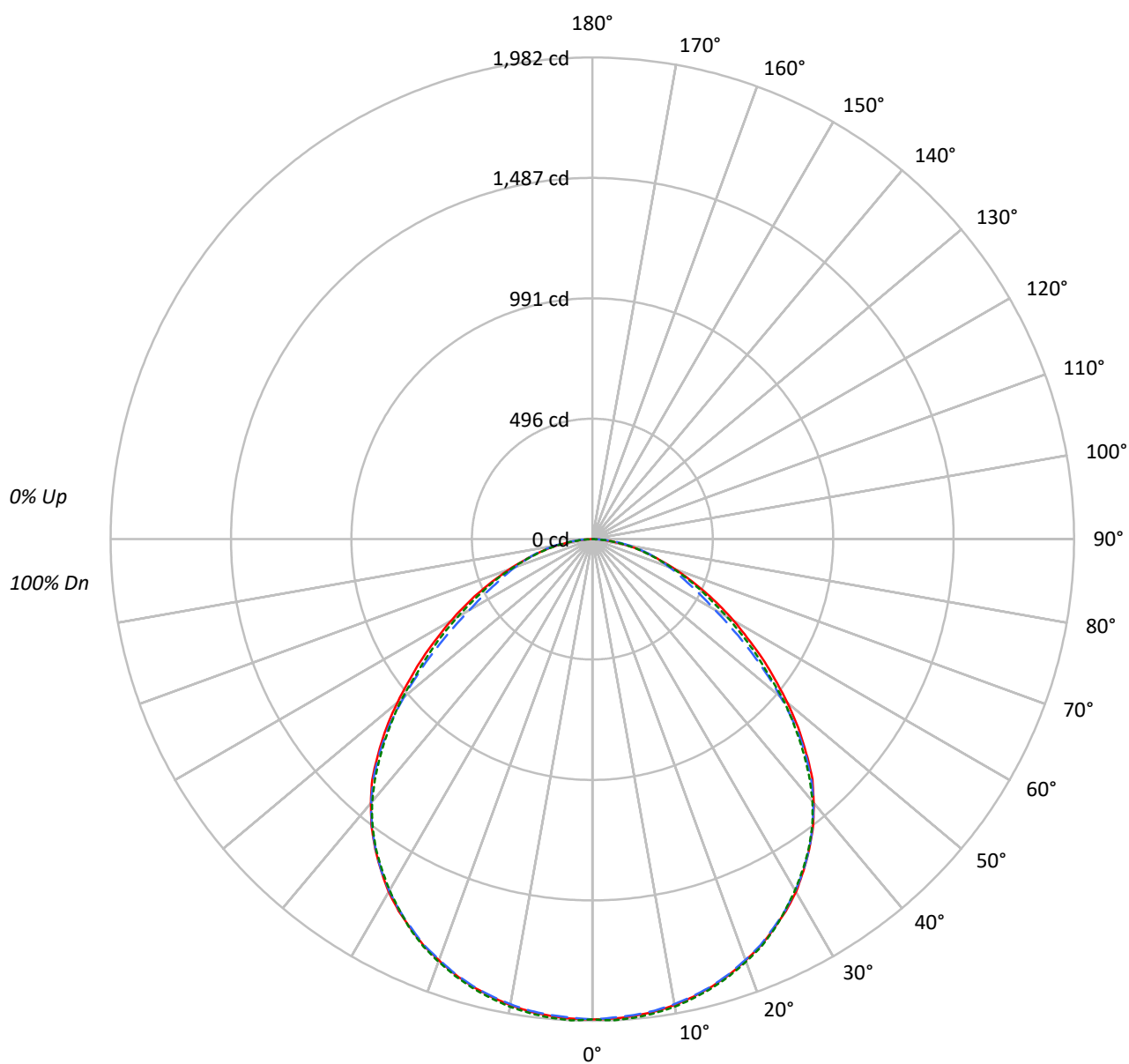
Lumens per Lamp: N/A
Luminaire Lumens: 4982.9 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	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	46	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	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2659	2659	2659
5°	2660	2655	2670
10°	2660	2655	2670
15°	2654	2651	2663
20°	2642	2638	2649
25°	2624	2620	2630
30°	2604	2595	2591
35°	2557	2554	2550
40°	2489	2486	2474
45°	2367	2350	2326
50°	2191	2118	2141
55°	2000	1838	1920
60°	1803	1567	1720
65°	1612	1402	1546
70°	1430	1327	1390
75°	1264	1286	1239
80°	1091	1228	1085
85°	817	971	817

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2373 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	3.8
10°-20°	538.1	10.8
20°-30°	814.7	16.3
30°-40°	971.3	19.5
40°-50°	949.0	19.0
50°-60°	725.7	14.6
60°-70°	465.9	9.3
70°-80°	259.2	5.2
80°-90°	71.6	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°	1540.2	30.9
0°-40°	2511.5	50.4
0°-60°	4186.2	84.0
0°-90°	4982.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4982.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1970	1971	1966	1975	1977	187
15°	1905	1907	1903	1909	1912	538
25°	1767	1769	1765	1770	1772	815
35°	1557	1558	1555	1554	1552	973
45°	1244	1247	1235	1232	1222	957
55°	852	823	783	793	819	762
65°	506	467	440	455	486	505
75°	243	245	247	244	238	260
85°	53	62	63	61	53	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1976.5	1976.5	1976.5	1976.5	1976.5
2.5°	1975.2	1975.9	1970.8	1979.3	1982.1
5°	1969.5	1970.8	1965.9	1975.2	1977.2
7.5°	1961.0	1962.3	1957.4	1966.7	1967.5
10°	1946.9	1947.7	1943.3	1952.6	1953.9
12.5°	1927.9	1930.0	1925.1	1933.6	1934.1
15°	1905.0	1906.6	1903.0	1909.4	1911.5
17.5°	1878.3	1879.1	1875.5	1882.4	1883.2
20°	1844.9	1844.9	1842.1	1850.1	1850.1
22.5°	1811.0	1809.0	1808.2	1811.0	1815.4
25°	1767.4	1769.4	1764.6	1770.2	1771.5
27.5°	1725.0	1725.0	1720.6	1723.5	1719.9
30°	1676.2	1673.4	1670.5	1671.1	1667.7
32.5°	1617.4	1617.4	1616.1	1616.1	1611.7
35°	1556.8	1558.0	1555.2	1554.4	1552.4
37.5°	1491.5	1493.8	1488.7	1487.4	1485.9
40°	1417.3	1417.3	1415.2	1412.4	1408.8
42.5°	1340.2	1340.2	1331.2	1324.1	1319.2
45°	1244.2	1247.0	1234.9	1232.1	1222.3
47.5°	1148.6	1146.6	1130.4	1128.3	1122.7
50°	1046.9	1034.8	1011.7	1017.9	1023.0
52.5°	945.2	930.3	896.4	903.3	911.8
55°	852.5	822.9	783.4	793.1	818.6
57.5°	755.6	716.1	676.5	695.0	726.6
60°	670.1	625.7	582.5	602.3	639.0
62.5°	588.2	540.9	506.2	525.3	556.3
65°	506.2	467.2	440.5	455.1	485.7
67.5°	431.2	405.1	386.8	393.7	418.4
70°	363.4	347.0	337.2	339.3	353.4
72.5°	299.0	294.9	291.3	291.3	292.6
75°	243.2	245.3	247.3	244.0	238.4
77.5°	191.6	198.5	203.7	196.5	189.6
80°	140.8	152.1	158.5	150.5	140.0
82.5°	96.1	108.9	111.0	106.1	94.0
85°	52.9	62.2	62.9	60.9	52.9
87.5°	19.8	23.4	25.4	23.4	20.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)