

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: P1050953

Luminaire Tested: 24PTR-45-PR1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PR1-L840-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

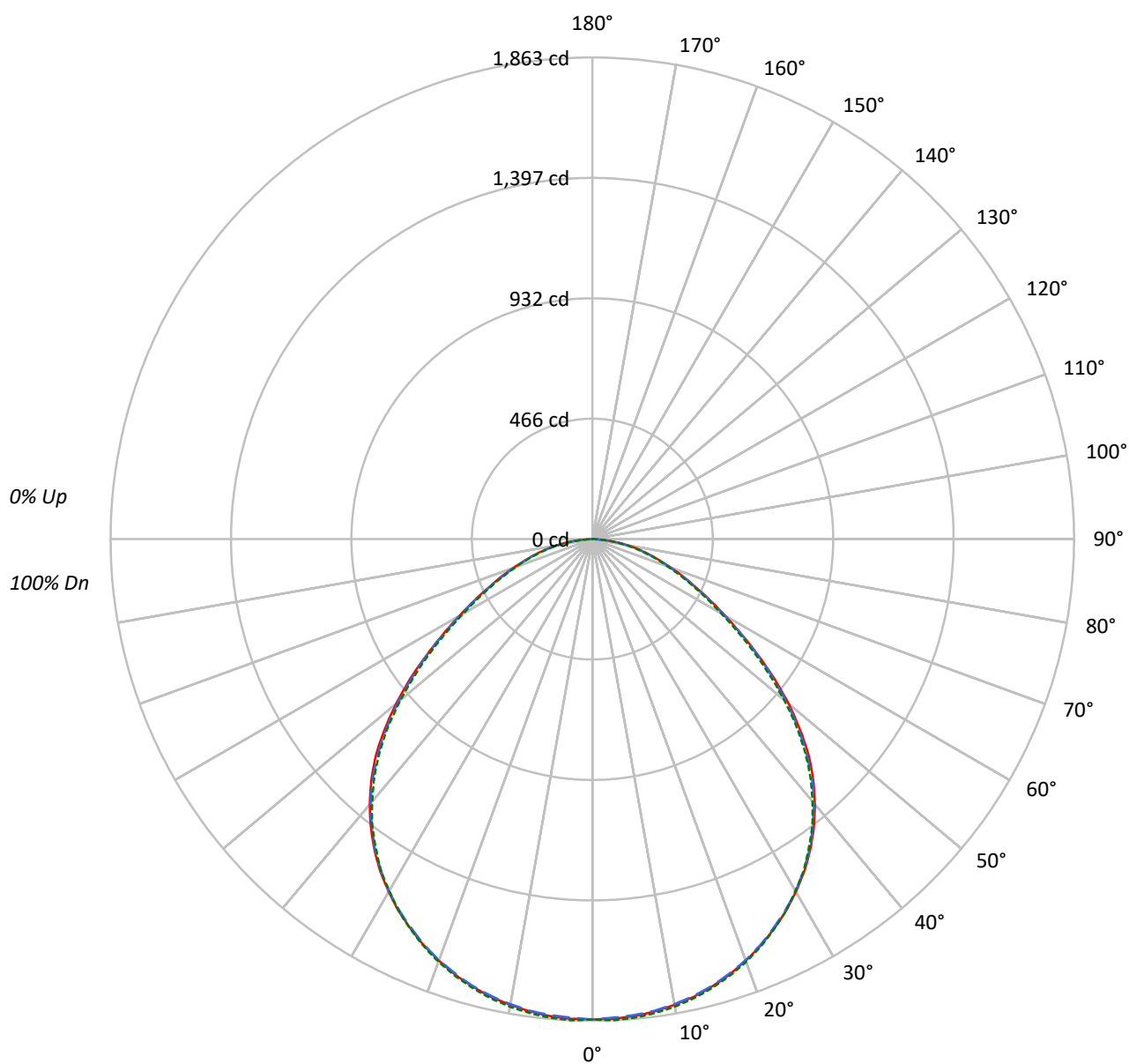
Lumens per Lamp: N/A
Luminaire Lumens: 4697.7 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	2499	2499	2499
5°	2502	2496	2510
10°	2500	2495	2509
15°	2495	2491	2503
20°	2484	2481	2491
25°	2468	2462	2471
30°	2446	2443	2440
35°	2413	2407	2397
40°	2352	2342	2326
45°	2253	2228	2212
50°	2074	2050	2025
55°	1835	1827	1791
60°	1595	1589	1546
65°	1406	1397	1369
70°	1275	1257	1231
75°	1181	1153	1132
80°	1078	1063	1027
85°	852	844	810

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2253 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	3.8
10°-20°	505.7	10.8
20°-30°	766.2	16.3
30°-40°	914.6	19.5
40°-50°	899.5	19.1
50°-60°	695.2	14.8
60°-70°	438.4	9.3
70°-80°	237.1	5.0
80°-90°	64.8	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°	1448.1	30.8
0°-40°	2362.7	50.3
0°-60°	3957.4	84.2
0°-90°	4697.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4697.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1858	1858	1858	1858	1858	
5°	1852	1853	1848	1856	1858	176
15°	1791	1792	1788	1794	1797	505
25°	1663	1664	1658	1664	1664	766
35°	1469	1469	1465	1464	1459	917
45°	1184	1180	1171	1162	1163	907
55°	782	789	779	766	764	702
65°	442	442	439	431	430	444
75°	227	224	222	223	218	241
85°	55	56	55	55	52	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.5	1857.5	1857.5	1857.5	1857.5
2.5°	1856.8	1857.5	1852.2	1860.9	1862.9
5°	1852.2	1852.9	1848.1	1856.1	1858.3
7.5°	1842.8	1844.2	1839.6	1847.6	1849.6
10°	1829.5	1830.9	1826.3	1834.3	1836.3
12.5°	1813.0	1813.5	1809.6	1816.9	1818.8
15°	1791.0	1791.5	1788.4	1794.2	1796.8
17.5°	1765.6	1766.3	1761.8	1769.0	1770.2
20°	1735.1	1735.6	1733.0	1739.0	1739.7
22.5°	1701.0	1702.5	1698.4	1703.7	1704.4
25°	1662.6	1663.8	1658.5	1663.8	1664.5
27.5°	1621.9	1622.4	1617.8	1621.9	1621.2
30°	1574.5	1578.6	1572.6	1571.1	1570.7
32.5°	1525.4	1525.9	1520.1	1518.6	1521.3
35°	1468.8	1469.3	1465.4	1463.5	1459.4
37.5°	1406.9	1406.9	1399.4	1398.2	1397.5
40°	1338.9	1338.2	1333.6	1329.0	1324.2
42.5°	1264.9	1266.3	1256.9	1248.9	1247.7
45°	1184.3	1179.7	1171.0	1161.8	1162.6
47.5°	1089.3	1090.5	1078.6	1071.1	1069.2
50°	990.6	990.6	979.5	971.5	967.4
52.5°	887.5	888.3	877.6	867.0	864.8
55°	782.3	788.8	778.9	766.3	763.7
57.5°	683.8	689.2	679.7	666.4	665.7
60°	592.7	593.1	590.5	577.9	574.5
62.5°	514.8	511.4	509.9	503.4	499.3
65°	441.5	442.2	438.8	431.3	430.1
67.5°	382.2	381.5	375.4	370.8	368.2
70°	324.1	322.2	319.5	315.7	313.0
72.5°	272.4	272.4	270.2	269.0	264.4
75°	227.1	224.5	221.8	223.0	217.7
77.5°	183.8	181.2	179.0	176.3	175.1
80°	139.1	136.4	137.2	133.0	132.6
82.5°	96.5	96.5	95.3	91.9	92.6
85°	55.2	55.9	54.7	55.2	52.5
87.5°	20.1	20.6	22.0	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)