

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: P1050568

Luminaire Tested: 24PTR-45-PB1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PB1-L840-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

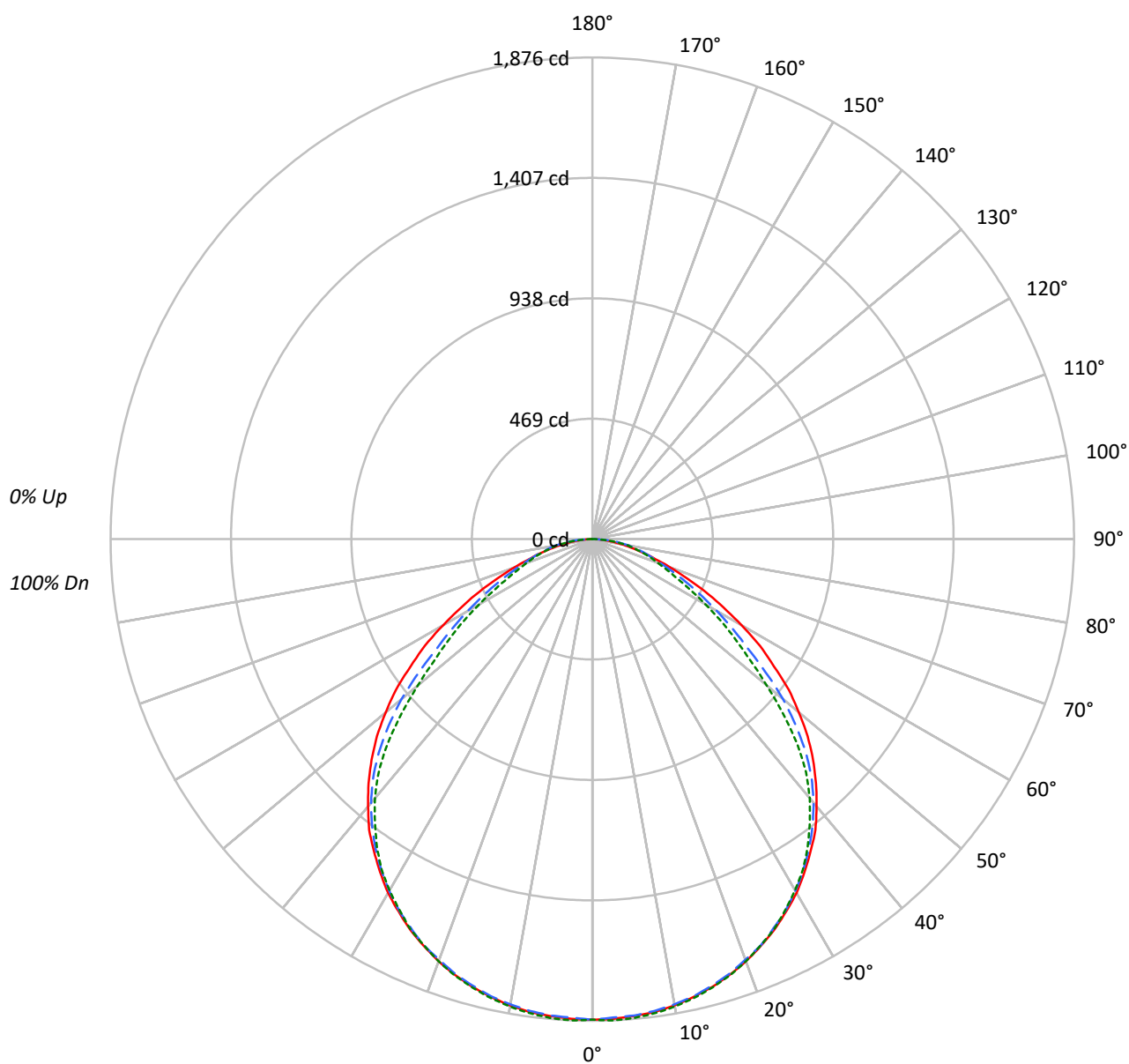
Lumens per Lamp: N/A
Luminaire Lumens: 4667.6 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2519	2519	2519
5°	2519	2516	2528
10°	2520	2513	2526
15°	2515	2508	2517
20°	2505	2496	2505
25°	2492	2481	2488
30°	2472	2458	2454
35°	2435	2417	2402
40°	2386	2354	2313
45°	2313	2239	2147
50°	2198	2029	1855
55°	2025	1723	1598
60°	1803	1506	1369
65°	1547	1305	1166
70°	1277	1151	1069
75°	1077	1101	1042
80°	910	1124	1072
85°	713	1138	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2313 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	3.8
10°-20°	509.3	10.9
20°-30°	771.5	16.5
30°-40°	919.3	19.7
40°-50°	898.9	19.3
50°-60°	679.9	14.6
60°-70°	417.8	8.9
70°-80°	222.5	4.8
80°-90°	71.0	1.5
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°	1458.2	31.2
0°-40°	2377.5	50.9
0°-60°	3956.3	84.8
0°-90°	4667.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4667.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1865	1867	1863	1870	1872	177
15°	1805	1807	1801	1807	1807	509
25°	1678	1676	1672	1674	1676	773
35°	1483	1480	1471	1464	1462	927
45°	1216	1209	1176	1137	1128	935
55°	863	820	735	693	681	773
65°	486	447	410	378	366	483
75°	207	210	212	205	200	222
85°	46	60	74	69	64	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.9	1871.9	1871.9	1871.9	1871.9
2.5°	1869.7	1871.9	1864.9	1874.3	1876.5
5°	1864.9	1867.3	1862.7	1869.7	1871.9
7.5°	1858.1	1858.1	1853.5	1860.3	1862.7
10°	1844.3	1844.3	1839.7	1846.5	1848.9
12.5°	1826.0	1826.0	1823.5	1828.1	1830.6
15°	1805.2	1807.3	1800.6	1807.3	1807.3
17.5°	1779.8	1777.6	1775.2	1779.8	1782.2
20°	1749.8	1749.8	1743.0	1747.6	1749.8
22.5°	1715.3	1715.3	1713.1	1715.3	1713.1
25°	1678.5	1676.1	1671.5	1673.9	1676.1
27.5°	1634.8	1634.8	1630.2	1630.2	1627.7
30°	1591.0	1588.6	1581.8	1577.2	1579.4
32.5°	1538.1	1535.7	1528.9	1524.3	1526.5
35°	1482.7	1480.5	1471.4	1464.3	1462.2
37.5°	1427.6	1420.6	1409.0	1399.8	1390.6
40°	1358.5	1351.5	1340.1	1319.3	1316.9
42.5°	1289.3	1282.6	1264.0	1238.8	1231.8
45°	1215.6	1208.8	1176.5	1137.3	1128.1
47.5°	1137.3	1125.9	1075.2	1026.8	1008.5
50°	1050.0	1029.2	969.3	907.2	886.4
52.5°	964.7	928.0	849.6	794.3	773.7
55°	863.4	819.7	734.6	693.0	681.4
57.5°	773.7	713.8	644.7	603.3	594.1
60°	670.1	614.7	559.6	522.6	508.8
62.5°	575.5	527.2	481.3	448.9	432.9
65°	485.9	446.7	410.0	377.6	366.2
67.5°	398.4	377.6	347.6	322.5	315.4
70°	324.6	313.0	292.5	280.9	271.7
72.5°	257.9	262.5	248.7	244.1	237.1
75°	207.2	209.6	211.7	205.0	200.4
77.5°	156.6	168.0	177.2	172.6	168.0
80°	117.5	128.8	145.0	138.3	138.3
82.5°	80.5	94.5	108.3	103.7	101.3
85°	46.2	59.9	73.7	69.1	64.5
87.5°	18.4	30.0	32.1	32.1	30.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)