

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: P1050645

Luminaire Tested: 24PTR-45-PC3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050645
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-45-PC3-L840-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

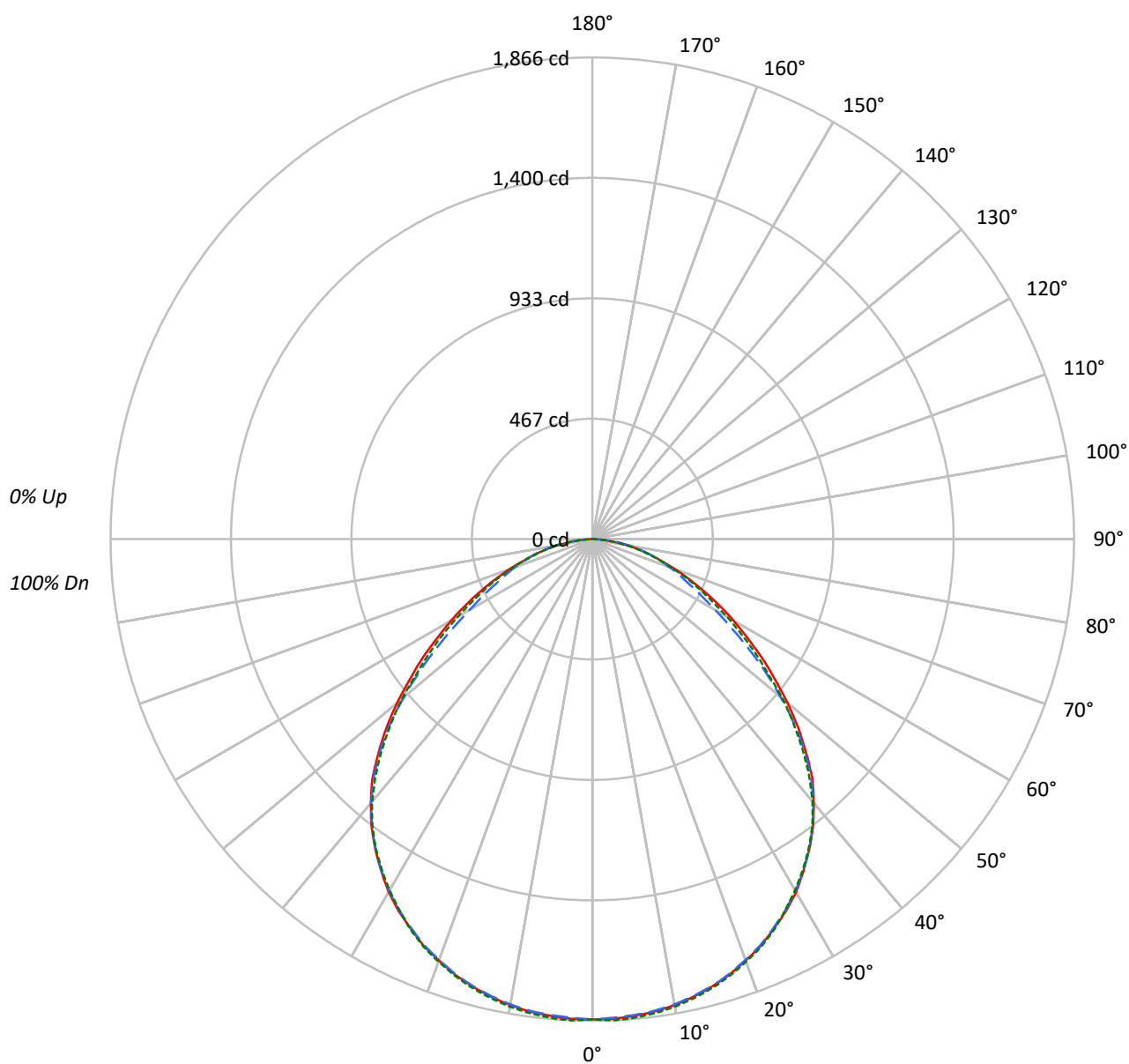
Lumens per Lamp: N/A
Luminaire Lumens: 4691.9 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2504	2504	2504
5°	2505	2500	2515
10°	2505	2500	2513
15°	2499	2496	2507
20°	2487	2484	2494
25°	2471	2467	2476
30°	2452	2444	2440
35°	2408	2405	2401
40°	2344	2341	2330
45°	2229	2213	2190
50°	2063	1994	2016
55°	1883	1730	1808
60°	1698	1476	1619
65°	1518	1321	1456
70°	1346	1249	1309
75°	1190	1211	1167
80°	1027	1156	1021
85°	769	915	769

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	3.8
10°-20°	506.7	10.8
20°-30°	767.1	16.3
30°-40°	914.5	19.5
40°-50°	893.6	19.0
50°-60°	683.3	14.6
60°-70°	438.7	9.4
70°-80°	244.1	5.2
80°-90°	67.4	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°	1450.2	30.9
0°-40°	2364.8	50.4
0°-60°	3941.7	84.0
0°-90°	4691.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4691.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1854	1856	1851	1860	1862	176
15°	1794	1795	1792	1798	1800	506
25°	1664	1666	1662	1667	1668	768
35°	1466	1467	1464	1464	1462	916
45°	1172	1174	1163	1160	1151	901
55°	803	775	738	747	771	718
65°	477	440	415	429	457	475
75°	229	231	233	230	224	245
85°	50	58	59	57	50	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1861.0	1861.0	1861.0	1861.0	1861.0
2.5°	1859.8	1860.5	1855.7	1863.7	1866.3
5°	1854.5	1855.7	1851.1	1859.8	1861.8
7.5°	1846.5	1847.7	1843.1	1851.8	1852.6
10°	1833.2	1833.9	1829.8	1838.5	1839.7
12.5°	1815.3	1817.3	1812.7	1820.6	1821.1
15°	1793.8	1795.2	1791.9	1797.9	1799.8
17.5°	1768.6	1769.4	1766.0	1772.5	1773.2
20°	1737.2	1737.2	1734.5	1742.0	1742.0
22.5°	1705.3	1703.3	1702.6	1705.3	1709.4
25°	1664.2	1666.1	1661.5	1666.8	1668.0
27.5°	1624.3	1624.3	1620.1	1622.8	1619.4
30°	1578.3	1575.6	1573.0	1573.5	1570.3
32.5°	1522.9	1522.9	1521.7	1521.7	1517.6
35°	1465.8	1467.1	1464.4	1463.7	1461.7
37.5°	1404.4	1406.6	1401.8	1400.5	1399.1
40°	1334.5	1334.5	1332.6	1329.9	1326.5
42.5°	1262.0	1262.0	1253.5	1246.7	1242.1
45°	1171.5	1174.2	1162.8	1160.1	1151.0
47.5°	1081.5	1079.6	1064.4	1062.4	1057.1
50°	985.8	974.4	952.6	958.4	963.3
52.5°	890.0	876.0	844.1	850.6	858.6
55°	802.7	774.9	737.6	746.8	770.8
57.5°	711.5	674.3	637.0	654.4	684.2
60°	631.0	589.1	548.5	567.1	601.7
62.5°	553.8	509.3	476.7	494.6	523.8
65°	476.7	439.9	414.8	428.6	457.3
67.5°	406.1	381.4	364.2	370.8	394.0
70°	342.2	326.7	317.5	319.5	332.8
72.5°	281.5	277.6	274.3	274.3	275.5
75°	229.0	231.0	232.9	229.8	224.4
77.5°	180.4	186.9	191.8	185.0	178.5
80°	132.5	143.2	149.2	141.7	131.8
82.5°	90.5	102.5	104.5	99.9	88.5
85°	49.8	58.5	59.3	57.3	49.8
87.5°	18.6	22.0	23.9	22.0	19.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)