

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: P1051019

Luminaire Tested: 24PTR-45-PW1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PW1-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

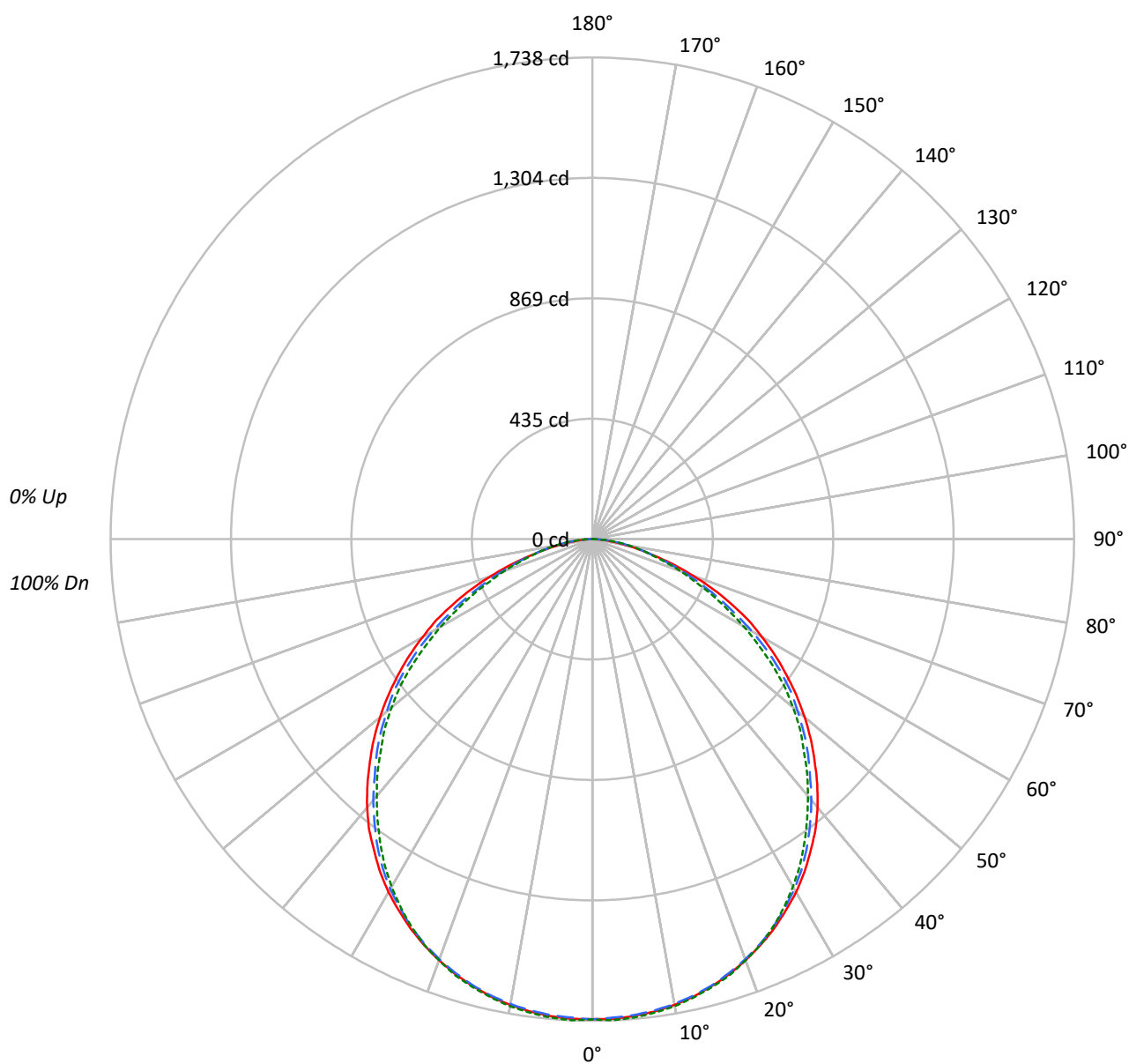
Lumens per Lamp: N/A
Luminaire Lumens: 4597.8 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2331	2331	2331
5°	2333	2328	2340
10°	2332	2327	2338
15°	2325	2321	2330
20°	2315	2310	2315
25°	2303	2293	2291
30°	2285	2265	2249
35°	2255	2220	2192
40°	2220	2159	2125
45°	2159	2095	2052
50°	2093	2025	1978
55°	2006	1938	1861
60°	1902	1790	1696
65°	1759	1598	1519
70°	1525	1391	1339
75°	1218	1191	1158
80°	925	1034	1034
85°	684	883	883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	3.6
10°-20°	471.3	10.2
20°-30°	712.2	15.5
30°-40°	845.7	18.4
40°-50°	852.0	18.5
50°-60°	736.5	16.0
60°-70°	503.4	10.9
70°-80°	248.2	5.4
80°-90°	64.2	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°	1347.8	29.3
0°-40°	2193.5	47.7
0°-60°	3782.0	82.3
0°-90°	4597.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4597.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1727	1728	1724	1731	1732	164
15°	1669	1671	1666	1672	1673	471
25°	1551	1550	1544	1546	1543	714
35°	1373	1368	1352	1340	1335	859
45°	1134	1122	1101	1088	1078	875
55°	855	853	826	802	793	765
65°	553	533	502	480	477	546
75°	234	232	229	229	223	255
85°	44	52	57	58	57	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.5	1732.5	1732.5	1732.5	1732.5
2.5°	1732.1	1732.5	1728.1	1735.8	1737.7
5°	1727.4	1728.1	1723.7	1730.7	1732.5
7.5°	1719.2	1720.4	1715.3	1722.3	1723.7
10°	1706.9	1707.6	1703.1	1710.1	1711.5
12.5°	1690.3	1690.8	1687.0	1693.3	1693.3
15°	1669.1	1670.9	1666.5	1672.3	1672.8
17.5°	1645.3	1646.0	1641.6	1647.8	1649.2
20°	1617.1	1617.1	1613.3	1618.5	1617.1
22.5°	1585.6	1585.6	1581.1	1583.7	1584.9
25°	1551.0	1549.6	1544.5	1545.9	1543.3
27.5°	1511.2	1511.2	1502.1	1502.1	1497.6
30°	1470.8	1467.5	1458.0	1452.1	1447.7
32.5°	1424.4	1419.9	1407.8	1397.5	1394.3
35°	1372.6	1367.9	1351.8	1339.7	1334.6
37.5°	1322.4	1312.2	1290.9	1278.8	1273.0
40°	1263.9	1251.1	1229.4	1212.6	1210.0
42.5°	1201.1	1190.9	1162.6	1150.3	1147.2
45°	1134.4	1122.0	1100.8	1088.0	1078.4
47.5°	1068.9	1059.8	1035.5	1020.1	1016.8
50°	1000.0	992.3	967.4	950.8	945.0
52.5°	928.9	923.8	902.5	881.3	874.3
55°	855.2	852.6	826.3	801.8	793.4
57.5°	782.6	779.4	746.5	718.3	710.6
60°	706.8	697.3	665.1	638.7	630.3
62.5°	635.0	614.4	579.7	559.2	549.6
65°	552.6	532.8	502.0	480.1	477.0
67.5°	471.9	448.1	424.3	410.8	400.5
70°	387.7	371.6	353.6	342.2	340.3
72.5°	309.3	297.9	288.8	281.8	276.0
75°	234.2	232.3	229.1	229.1	222.8
77.5°	172.2	176.6	179.2	178.5	179.9
80°	119.4	128.3	133.4	134.1	133.4
82.5°	75.8	86.1	94.5	95.6	97.0
85°	44.3	52.0	57.2	58.3	57.2
87.5°	19.8	25.0	26.4	27.5	26.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)