

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: P1051030

Luminaire Tested: 24PTR-45-PW1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051030
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-L840-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

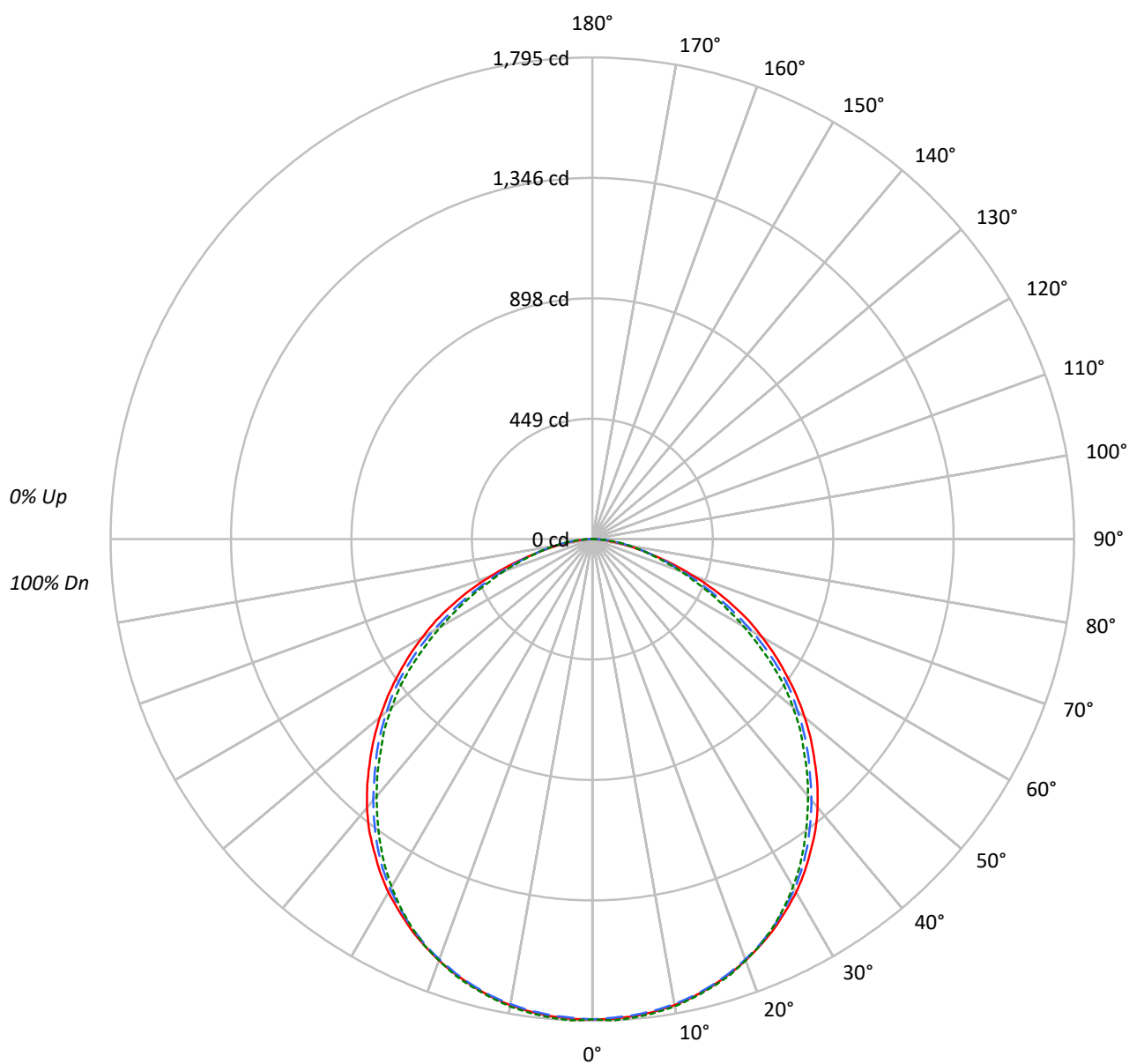
Lumens per Lamp: N/A
Luminaire Lumens: 4750.1 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2408	2408	2408
5°	2410	2405	2417
10°	2409	2404	2416
15°	2402	2398	2407
20°	2392	2387	2392
25°	2379	2369	2367
30°	2361	2340	2324
35°	2329	2294	2265
40°	2293	2231	2196
45°	2230	2164	2120
50°	2163	2092	2044
55°	2073	2002	1923
60°	1965	1849	1752
65°	1818	1651	1569
70°	1576	1437	1383
75°	1258	1231	1197
80°	956	1068	1068
85°	707	911	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2230 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	3.6
10°-20°	486.9	10.2
20°-30°	735.8	15.5
30°-40°	873.7	18.4
40°-50°	880.3	18.5
50°-60°	760.9	16.0
60°-70°	520.0	10.9
70°-80°	256.4	5.4
80°-90°	66.3	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°	1392.5	29.3
0°-40°	2266.2	47.7
0°-60°	3907.3	82.3
0°-90°	4750.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4750.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1785	1785	1781	1788	1790	170
15°	1724	1726	1722	1728	1728	487
25°	1602	1601	1596	1597	1594	738
35°	1418	1413	1397	1384	1379	888
45°	1172	1159	1137	1124	1114	905
55°	884	881	854	828	820	790
65°	571	550	519	496	493	564
75°	242	240	237	237	230	264
85°	46	54	59	60	59	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1789.9	1789.9	1789.9	1789.9	1789.9
2.5°	1789.4	1789.9	1785.3	1793.3	1795.2
5°	1784.6	1785.3	1780.8	1788.0	1789.9
7.5°	1776.2	1777.4	1772.1	1779.3	1780.8
10°	1763.4	1764.1	1759.5	1766.8	1768.2
12.5°	1746.3	1746.8	1742.9	1749.4	1749.4
15°	1724.4	1726.3	1721.7	1727.7	1728.2
17.5°	1699.8	1700.5	1695.9	1702.4	1703.9
20°	1670.6	1670.6	1666.8	1672.1	1670.6
22.5°	1638.1	1638.1	1633.5	1636.2	1637.4
25°	1602.4	1601.0	1595.7	1597.1	1594.5
27.5°	1561.2	1561.2	1551.8	1551.8	1547.2
30°	1519.5	1516.1	1506.3	1500.2	1495.7
32.5°	1471.6	1467.0	1454.4	1443.8	1440.5
35°	1418.0	1413.2	1396.6	1384.1	1378.8
37.5°	1366.2	1355.6	1333.7	1321.2	1315.1
40°	1305.7	1292.5	1270.1	1252.7	1250.1
42.5°	1240.9	1230.3	1201.1	1188.4	1185.2
45°	1172.0	1159.2	1137.3	1124.0	1114.1
47.5°	1104.3	1094.9	1069.8	1053.9	1050.5
50°	1033.2	1025.2	999.4	982.3	976.3
52.5°	959.7	954.4	932.4	910.5	903.3
55°	883.5	880.9	853.6	828.3	819.6
57.5°	808.6	805.2	771.2	742.0	734.1
60°	730.2	720.4	687.1	659.9	651.2
62.5°	656.0	634.8	598.9	577.7	567.8
65°	570.9	550.4	518.6	496.0	492.8
67.5°	487.5	463.0	438.4	424.4	413.8
70°	400.5	383.9	365.4	353.5	351.6
72.5°	319.6	307.8	298.4	291.1	285.1
75°	242.0	240.0	236.7	236.7	230.2
77.5°	177.9	182.4	185.1	184.4	185.8
80°	123.4	132.6	137.9	138.6	137.9
82.5°	78.3	88.9	97.6	98.8	100.3
85°	45.8	53.7	59.0	60.3	59.0
87.5°	20.5	25.8	27.2	28.4	27.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)