

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: P1051007

Luminaire Tested: 24PTR-40-PW1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051007
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-40-PW1-L830-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

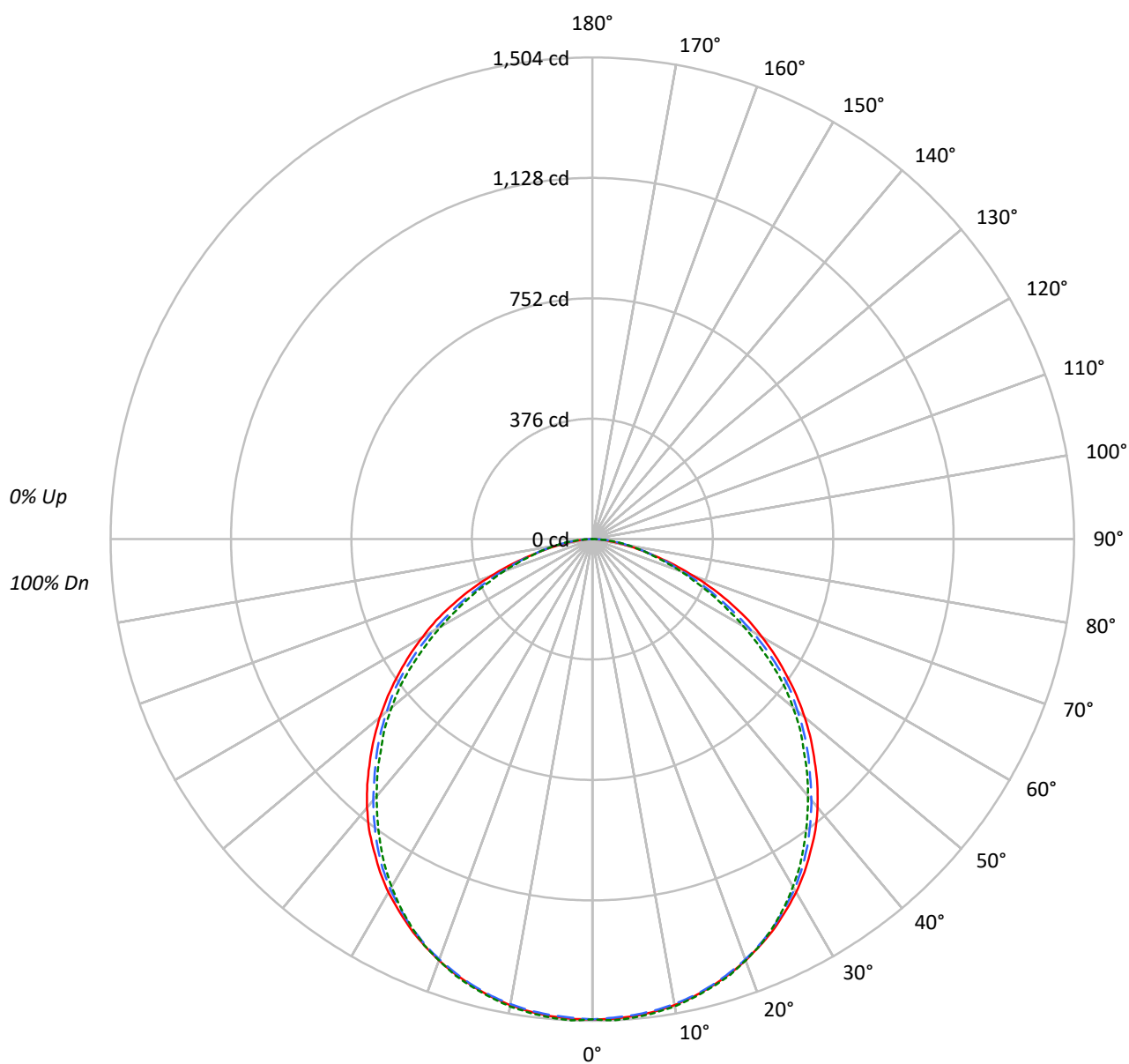
Lumens per Lamp: N/A
Luminaire Lumens: 3979.9 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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°	2018	2018	2018
5°	2020	2015	2026
10°	2019	2014	2024
15°	2013	2009	2017
20°	2004	2000	2004
25°	1993	1985	1983
30°	1978	1961	1947
35°	1952	1922	1897
40°	1922	1869	1840
45°	1869	1813	1776
50°	1812	1753	1712
55°	1737	1678	1611
60°	1646	1549	1468
65°	1523	1383	1315
70°	1320	1204	1159
75°	1054	1031	1002
80°	801	895	895
85°	593	764	764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1869 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	3.6
10°-20°	407.9	10.2
20°-30°	616.5	15.5
30°-40°	732.1	18.4
40°-50°	737.5	18.5
50°-60°	637.5	16.0
60°-70°	435.7	10.9
70°-80°	214.9	5.4
80°-90°	55.6	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°	1166.7	29.3
0°-40°	1898.7	47.7
0°-60°	3273.8	82.3
0°-90°	3979.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3979.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1495	1496	1492	1498	1500	142
15°	1445	1446	1443	1448	1448	408
25°	1343	1341	1337	1338	1336	618
35°	1188	1184	1170	1160	1155	744
45°	982	971	953	942	934	758
55°	740	738	715	694	687	662
65°	478	461	434	416	413	472
75°	203	201	198	198	193	221
85°	38	45	50	50	50	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.7	1499.7	1499.7	1499.7	1499.7
2.5°	1499.3	1499.7	1495.9	1502.5	1504.1
5°	1495.3	1495.9	1492.0	1498.1	1499.7
7.5°	1488.2	1489.2	1484.8	1490.8	1492.0
10°	1477.5	1478.1	1474.3	1480.3	1481.5
12.5°	1463.1	1463.6	1460.3	1465.8	1465.8
15°	1444.8	1446.4	1442.6	1447.6	1448.0
17.5°	1424.2	1424.8	1420.9	1426.4	1427.6
20°	1399.7	1399.7	1396.5	1401.0	1399.7
22.5°	1372.5	1372.5	1368.6	1370.9	1371.9
25°	1342.6	1341.4	1336.9	1338.2	1335.9
27.5°	1308.1	1308.1	1300.2	1300.2	1296.4
30°	1273.1	1270.3	1262.0	1257.0	1253.1
32.5°	1233.0	1229.1	1218.6	1209.7	1206.9
35°	1188.1	1184.1	1170.2	1159.7	1155.2
37.5°	1144.7	1135.8	1117.5	1107.0	1101.9
40°	1094.0	1082.9	1064.1	1049.6	1047.4
42.5°	1039.7	1030.8	1006.4	995.7	993.1
45°	982.0	971.3	952.9	941.8	933.5
47.5°	925.2	917.3	896.3	883.0	880.2
50°	865.7	859.0	837.4	823.0	818.0
52.5°	804.1	799.6	781.2	762.9	756.8
55°	740.3	738.0	715.2	694.0	686.7
57.5°	677.5	674.6	646.2	621.7	615.1
60°	611.8	603.6	575.7	552.9	545.6
62.5°	549.6	531.9	501.8	484.0	475.7
65°	478.4	461.2	434.5	415.6	412.9
67.5°	408.5	387.9	367.3	355.6	346.7
70°	335.6	321.7	306.1	296.2	294.6
72.5°	267.8	257.9	250.0	243.9	238.9
75°	202.7	201.1	198.3	198.3	192.8
77.5°	149.0	152.9	155.1	154.5	155.7
80°	103.4	111.1	115.5	116.1	115.5
82.5°	65.6	74.5	81.8	82.8	84.0
85°	38.4	45.0	49.5	50.5	49.5
87.5°	17.2	21.6	22.8	23.8	22.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)