

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: P1050468

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40-L830-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

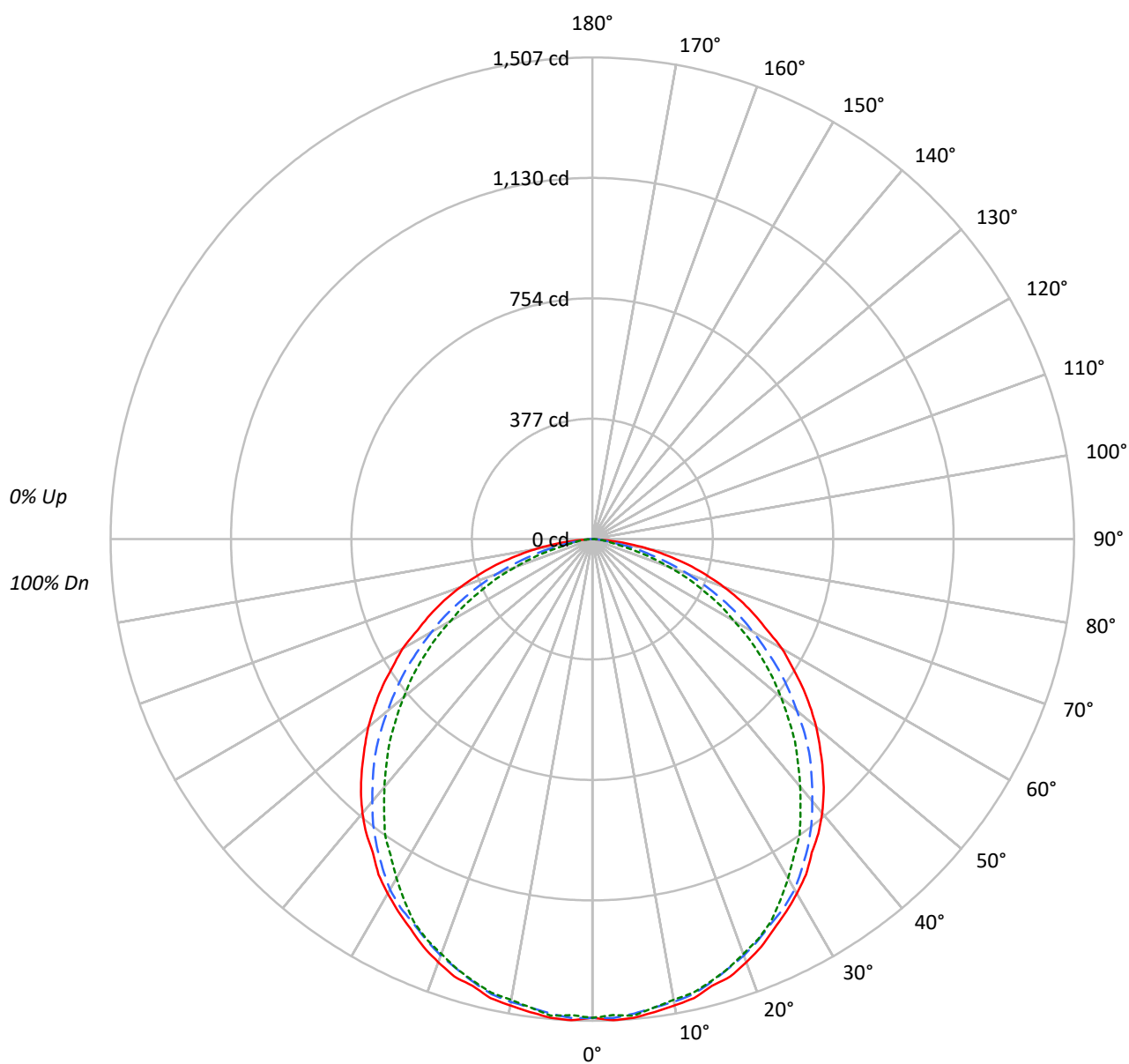
Lumens per Lamp: N/A
Luminaire Lumens: 3989.3 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2015	2015	2015
5°	2030	2013	2022
10°	2024	2008	2000
15°	2015	1999	1995
20°	2017	1985	1977
25°	1997	1968	1961
30°	1989	1966	1903
35°	1966	1931	1856
40°	1965	1880	1777
45°	1940	1831	1706
50°	1914	1750	1613
55°	1877	1668	1515
60°	1844	1560	1375
65°	1781	1431	1230
70°	1723	1246	1004
75°	1618	983	691
80°	1403	594	415
85°	937	428	400

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1940 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.6
10°-20°	406.2	10.2
20°-30°	613.6	15.4
30°-40°	729.6	18.3
40°-50°	739.9	18.5
50°-60°	642.5	16.1
60°-70°	456.1	11.4
70°-80°	218.0	5.5
80°-90°	41.3	1.0
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°	1161.8	29.1
0°-40°	1891.4	47.4
0°-60°	3273.9	82.1
0°-90°	3989.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3989.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1503	1498	1490	1494	1497	143
15°	1447	1450	1435	1433	1432	410
25°	1345	1343	1326	1331	1321	621
35°	1197	1195	1176	1136	1130	752
45°	1020	1011	962	912	896	786
55°	800	776	711	669	646	715
65°	559	517	450	401	386	554
75°	311	254	189	150	133	326
85°	61	32	28	27	26	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1497.7	1497.7	1497.7	1497.7	1497.7
2.5°	1506.6	1501.2	1499.4	1505.7	1490.5
5°	1503.0	1497.7	1490.5	1494.1	1496.8
7.5°	1492.3	1487.8	1478.0	1486.1	1478.0
10°	1481.6	1477.1	1470.0	1472.7	1463.8
12.5°	1470.9	1460.2	1458.4	1460.2	1453.9
15°	1446.8	1450.4	1435.2	1433.4	1432.5
17.5°	1435.2	1426.3	1410.2	1411.1	1409.3
20°	1408.5	1397.8	1386.2	1384.4	1380.8
22.5°	1380.8	1368.3	1357.6	1363.0	1354.9
25°	1345.1	1343.3	1325.5	1330.9	1321.0
27.5°	1313.9	1307.7	1299.6	1288.0	1273.8
30°	1280.0	1273.8	1265.7	1235.4	1224.7
32.5°	1244.3	1237.2	1221.1	1185.5	1173.9
35°	1197.1	1195.3	1175.6	1135.5	1130.2
37.5°	1161.4	1141.8	1125.7	1084.7	1069.5
40°	1118.6	1107.9	1070.4	1031.1	1011.5
42.5°	1071.3	1058.8	1016.0	974.1	952.6
45°	1019.5	1010.6	962.5	911.6	896.5
47.5°	966.0	958.0	900.9	851.9	832.2
50°	914.3	904.5	835.8	788.5	770.7
52.5°	858.1	842.0	774.2	727.9	710.9
55°	800.1	776.0	710.9	669.0	645.8
57.5°	738.6	716.3	644.0	600.3	581.6
60°	685.1	653.8	579.8	535.2	511.1
62.5°	616.4	589.6	519.1	466.5	454.9
65°	559.3	517.4	449.6	401.4	386.2
67.5°	501.3	452.2	383.6	334.5	326.5
70°	438.0	387.1	316.7	268.5	255.1
72.5°	373.7	323.8	255.1	204.3	196.2
75°	311.3	254.2	189.1	149.9	132.9
77.5°	243.5	191.8	132.9	91.9	81.2
80°	181.1	129.3	76.7	54.4	53.5
82.5°	118.6	74.9	41.0	41.9	40.1
85°	60.7	32.1	27.7	26.8	25.9
87.5°	11.6	12.5	13.4	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)