

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: P1050622

Luminaire Tested: 24PTR-40-PC3-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050622
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-40-PC3-L830-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

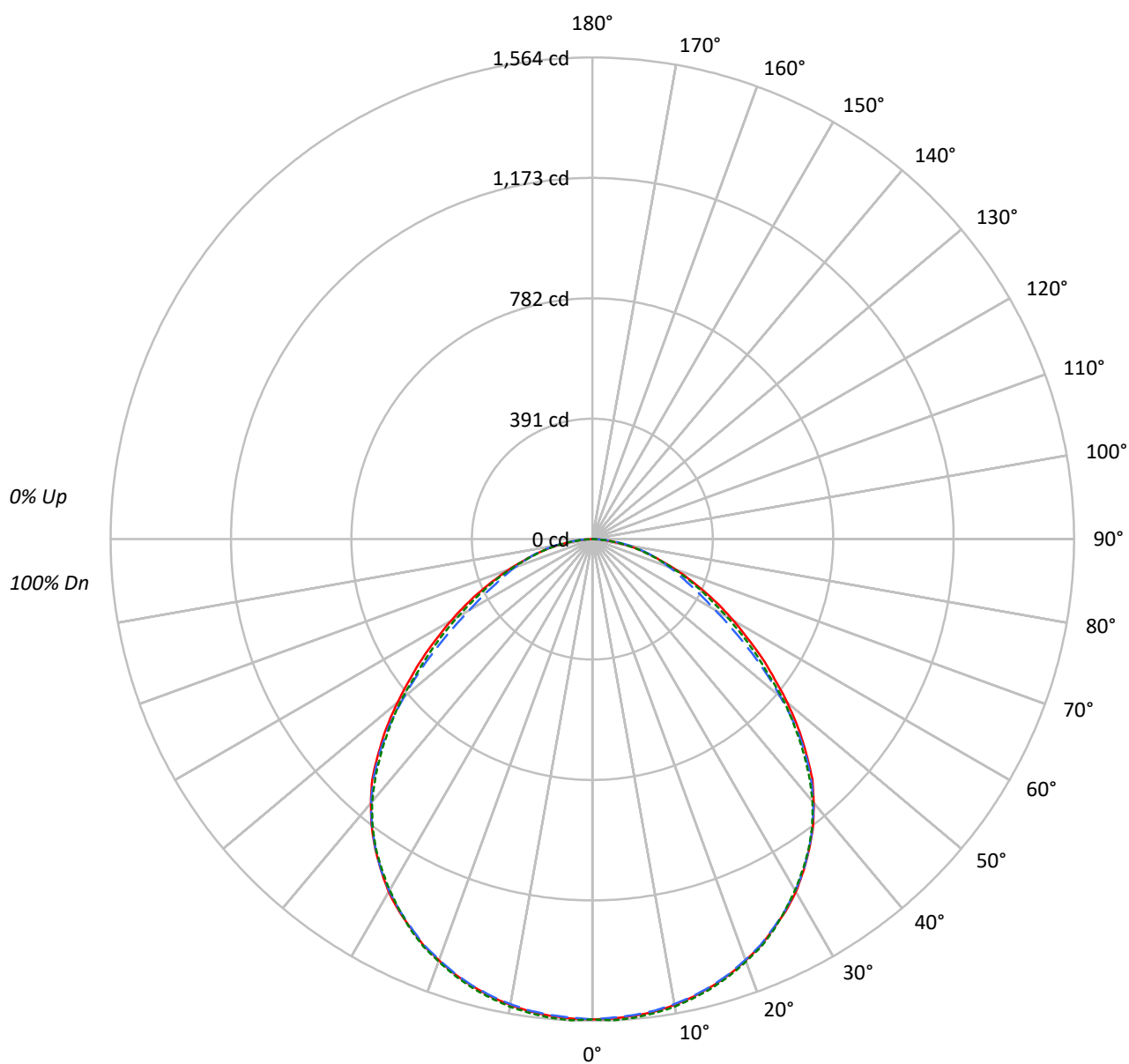
Lumens per Lamp: N/A
Luminaire Lumens: 3931.4 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2098	2098	2098
5°	2099	2095	2107
10°	2099	2095	2106
15°	2094	2091	2101
20°	2084	2081	2090
25°	2070	2067	2075
30°	2055	2048	2044
35°	2018	2015	2012
40°	1964	1961	1952
45°	1868	1854	1835
50°	1729	1671	1690
55°	1578	1450	1515
60°	1423	1237	1357
65°	1272	1106	1220
70°	1128	1047	1097
75°	998	1015	978
80°	861	969	855
85°	644	766	644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1872 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	3.8
10°-20°	424.5	10.8
20°-30°	642.8	16.3
30°-40°	766.3	19.5
40°-50°	748.8	19.0
50°-60°	572.5	14.6
60°-70°	367.6	9.4
70°-80°	204.5	5.2
80°-90°	56.5	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°	1215.2	30.9
0°-40°	1981.5	50.4
0°-60°	3302.8	84.0
0°-90°	3931.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1554	1555	1551	1558	1560	148
15°	1503	1504	1501	1506	1508	424
25°	1394	1396	1392	1397	1398	643
35°	1228	1229	1227	1226	1225	767
45°	982	984	974	972	964	755
55°	673	649	618	626	646	601
65°	399	369	348	359	383	398
75°	192	194	195	192	188	205
85°	42	49	50	48	42	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.4	1559.4	1559.4	1559.4	1559.4
2.5°	1558.4	1559.0	1554.9	1561.6	1563.8
5°	1553.9	1554.9	1551.1	1558.4	1560.0
7.5°	1547.2	1548.2	1544.4	1551.7	1552.3
10°	1536.1	1536.7	1533.2	1540.5	1541.6
12.5°	1521.1	1522.7	1518.9	1525.5	1525.9
15°	1503.0	1504.3	1501.4	1506.5	1508.1
17.5°	1482.0	1482.6	1479.7	1485.2	1485.8
20°	1455.6	1455.6	1453.4	1459.7	1459.7
22.5°	1428.9	1427.3	1426.7	1428.9	1432.3
25°	1394.4	1396.1	1392.2	1396.7	1397.7
27.5°	1361.0	1361.0	1357.5	1359.8	1356.9
30°	1322.5	1320.3	1318.0	1318.4	1315.8
32.5°	1276.1	1276.1	1275.1	1275.1	1271.6
35°	1228.3	1229.3	1227.0	1226.4	1224.8
37.5°	1176.8	1178.6	1174.6	1173.5	1172.3
40°	1118.2	1118.2	1116.6	1114.4	1111.5
42.5°	1057.4	1057.4	1050.3	1044.7	1040.8
45°	981.6	983.9	974.3	972.1	964.4
47.5°	906.2	904.6	891.9	890.2	885.8
50°	826.0	816.5	798.2	803.1	807.2
52.5°	745.7	734.0	707.2	712.7	719.4
55°	672.6	649.3	618.1	625.8	645.8
57.5°	596.2	565.0	533.8	548.4	573.3
60°	528.7	493.7	459.6	475.2	504.2
62.5°	464.1	426.8	399.4	414.4	438.9
65°	399.4	368.6	347.5	359.1	383.2
67.5°	340.2	319.6	305.2	310.7	330.1
70°	286.7	273.8	266.1	267.7	278.8
72.5°	235.9	232.6	229.8	229.8	230.8
75°	191.9	193.5	195.2	192.5	188.1
77.5°	151.2	156.6	160.7	155.0	149.6
80°	111.1	120.0	125.0	118.8	110.4
82.5°	75.8	85.9	87.5	83.7	74.2
85°	41.7	49.0	49.6	48.0	41.7
87.5°	15.6	18.4	20.1	18.4	16.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)