

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: P1050721

Luminaire Tested: 24PTR-40-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40-PL1-L840-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

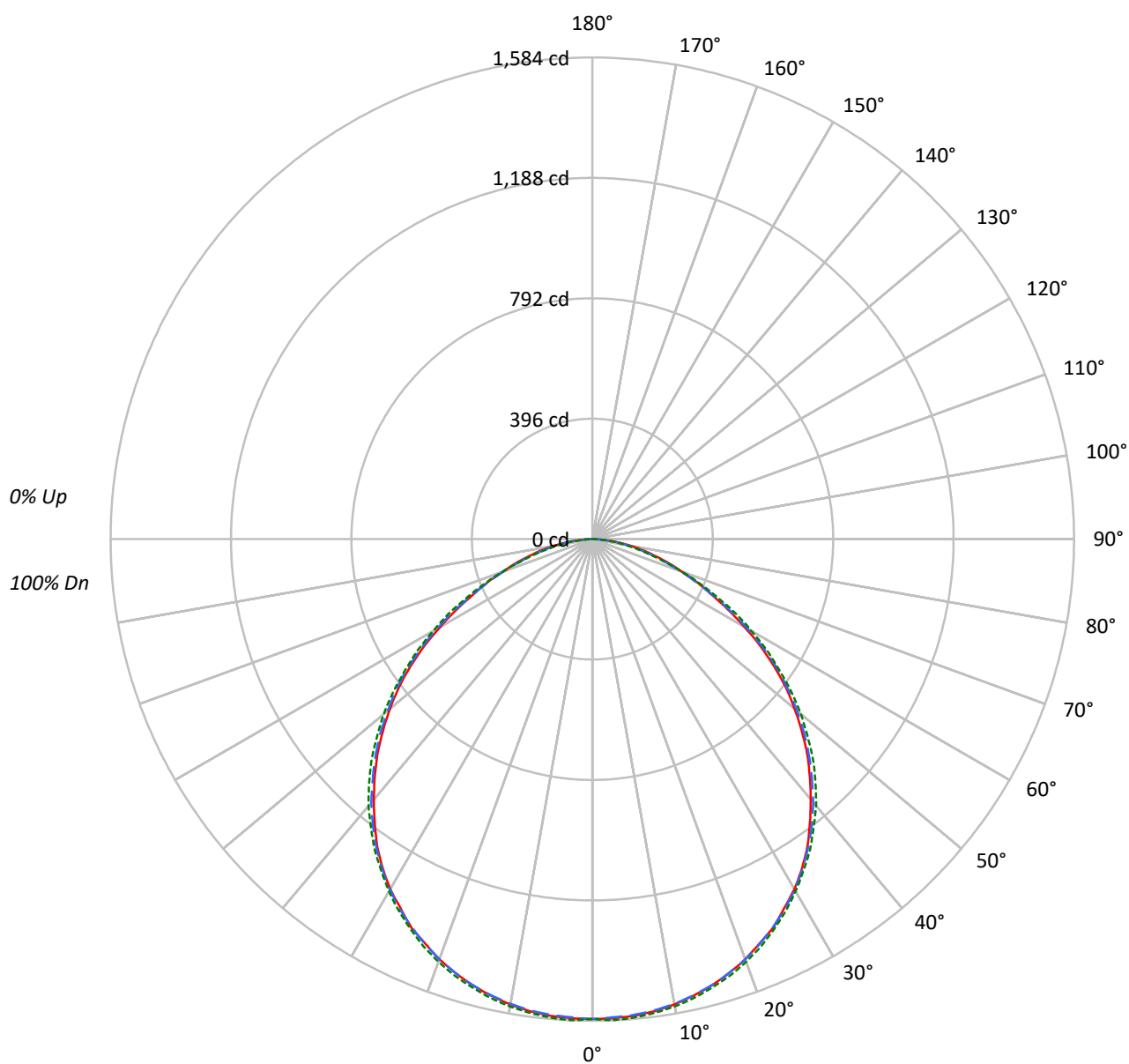
Lumens per Lamp: N/A
Luminaire Lumens: 4160.3 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2124	2124	2124
5°	2125	2121	2133
10°	2123	2120	2132
15°	2116	2115	2126
20°	2106	2106	2118
25°	2091	2089	2100
30°	2065	2068	2078
35°	2026	2033	2050
40°	1963	1985	2011
45°	1901	1917	1954
50°	1818	1837	1874
55°	1712	1740	1760
60°	1553	1586	1626
65°	1379	1394	1450
70°	1233	1208	1238
75°	1112	1048	1027
80°	1011	938	833
85°	857	778	668

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1954 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	3.6
10°-20°	429.4	10.3
20°-30°	649.5	15.6
30°-40°	774.2	18.6
40°-50°	778.5	18.7
50°-60°	660.7	15.9
60°-70°	439.9	10.6
70°-80°	219.7	5.3
80°-90°	58.8	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°	1228.6	29.5
0°-40°	2002.8	48.1
0°-60°	3442.0	82.7
0°-90°	4160.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4160.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1574	1574	1571	1578	1579	150
15°	1519	1521	1519	1525	1526	429
25°	1409	1409	1407	1413	1414	648
35°	1233	1234	1238	1247	1248	769
45°	999	1001	1008	1021	1027	769
55°	730	735	742	749	750	650
65°	433	437	438	444	456	434
75°	214	211	202	197	198	230
85°	56	54	50	47	43	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578.3	1578.3	1578.3	1578.3	1578.3
2.5°	1577.0	1578.3	1574.1	1581.7	1583.6
5°	1573.6	1574.1	1570.7	1577.7	1579.4
7.5°	1566.0	1566.6	1563.0	1570.7	1571.7
10°	1553.7	1554.9	1552.0	1559.0	1560.7
12.5°	1537.9	1539.6	1536.7	1544.3	1545.6
15°	1519.2	1520.9	1518.6	1525.0	1526.2
17.5°	1496.3	1497.6	1496.3	1502.2	1505.6
20°	1470.6	1470.6	1470.6	1475.9	1478.9
22.5°	1438.5	1441.5	1440.2	1447.2	1450.2
25°	1408.7	1408.7	1406.8	1413.4	1414.5
27.5°	1367.1	1371.8	1371.3	1377.1	1378.4
30°	1329.1	1330.3	1331.0	1335.0	1337.3
32.5°	1283.0	1284.0	1285.9	1291.7	1292.3
35°	1233.2	1234.5	1237.9	1246.6	1247.9
37.5°	1175.4	1181.8	1184.8	1194.1	1195.2
40°	1117.4	1121.5	1130.4	1140.2	1144.8
42.5°	1058.4	1063.0	1068.3	1081.7	1086.0
45°	999.3	1001.0	1007.6	1021.0	1026.9
47.5°	933.8	939.2	944.9	956.6	960.2
50°	868.4	874.1	877.8	888.2	895.2
52.5°	802.3	807.6	811.7	818.0	825.1
55°	729.9	735.0	741.6	748.6	750.3
57.5°	656.1	661.9	666.1	673.6	681.2
60°	577.1	583.7	589.4	596.4	604.1
62.5°	503.6	506.3	512.3	524.0	535.0
65°	433.2	436.9	437.9	444.5	455.6
67.5°	374.8	374.8	369.5	371.8	384.2
70°	313.4	311.1	307.0	304.7	314.7
72.5°	263.7	260.7	252.0	248.0	253.3
75°	214.0	211.0	201.6	197.0	197.6
77.5°	171.9	167.2	159.6	151.5	149.8
80°	130.5	128.6	121.1	113.5	107.5
82.5°	92.4	88.4	84.1	79.5	74.8
85°	55.5	54.4	50.4	47.4	43.3
87.5°	22.7	22.7	21.7	20.4	19.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)