

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: P1050490

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050490
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-L840-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

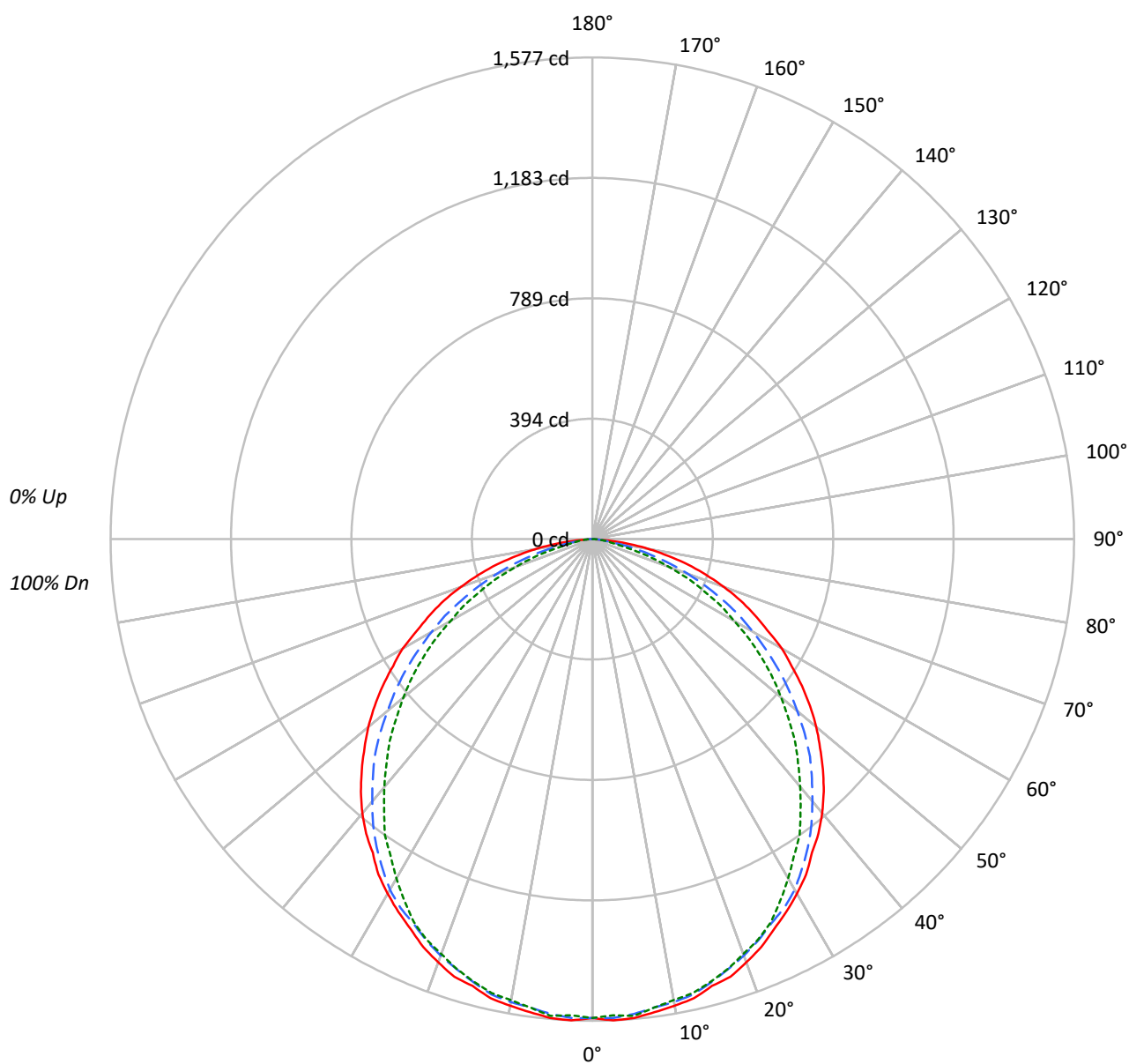
Lumens per Lamp: N/A
Luminaire Lumens: 4176.3 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2110	2110	2110
5°	2125	2108	2116
10°	2119	2103	2094
15°	2110	2093	2089
20°	2111	2078	2070
25°	2091	2060	2053
30°	2082	2059	1992
35°	2058	2022	1943
40°	2057	1968	1860
45°	2031	1917	1786
50°	2004	1832	1689
55°	1965	1746	1586
60°	1930	1633	1440
65°	1864	1498	1287
70°	1804	1304	1051
75°	1694	1029	723
80°	1469	622	434
85°	980	446	418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2031 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	3.6
10°-20°	425.3	10.2
20°-30°	642.4	15.4
30°-40°	763.8	18.3
40°-50°	774.6	18.5
50°-60°	672.6	16.1
60°-70°	477.5	11.4
70°-80°	228.2	5.5
80°-90°	43.2	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°	1216.3	29.1
0°-40°	1980.1	47.4
0°-60°	3427.3	82.1
0°-90°	4176.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1574	1568	1560	1564	1567	149
15°	1515	1518	1502	1501	1500	429
25°	1408	1406	1388	1393	1383	650
35°	1253	1251	1231	1189	1183	787
45°	1067	1058	1008	954	938	823
55°	838	812	744	700	676	748
65°	586	542	471	420	404	580
75°	326	266	198	157	139	342
85°	64	34	29	28	27	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.9	1567.9	1567.9	1567.9	1567.9
2.5°	1577.2	1571.6	1569.7	1576.3	1560.4
5°	1573.5	1567.9	1560.4	1564.1	1566.9
7.5°	1562.3	1557.6	1547.3	1555.7	1547.3
10°	1551.1	1546.4	1538.9	1541.7	1532.4
12.5°	1539.8	1528.6	1526.8	1528.6	1522.1
15°	1514.6	1518.4	1502.5	1500.6	1499.7
17.5°	1502.5	1493.2	1476.3	1477.3	1475.4
20°	1474.5	1463.3	1451.1	1449.3	1445.5
22.5°	1445.5	1432.5	1421.3	1426.9	1418.5
25°	1408.2	1406.3	1387.6	1393.2	1383.0
27.5°	1375.5	1369.0	1360.6	1348.4	1333.5
30°	1340.0	1333.5	1325.1	1293.3	1282.1
32.5°	1302.7	1295.2	1278.4	1241.0	1228.9
35°	1253.2	1251.3	1230.8	1188.7	1183.1
37.5°	1215.8	1195.3	1178.5	1135.5	1119.6
40°	1171.0	1159.8	1120.6	1079.5	1058.9
42.5°	1121.5	1108.4	1063.6	1019.7	997.3
45°	1067.3	1058.0	1007.6	954.3	938.5
47.5°	1011.3	1002.9	943.1	891.8	871.2
50°	957.2	946.9	875.0	825.5	806.8
52.5°	898.3	881.5	810.5	762.0	744.2
55°	837.6	812.4	744.2	700.4	676.1
57.5°	773.2	749.8	674.2	628.5	608.8
60°	717.2	684.5	607.0	560.3	535.1
62.5°	645.3	617.2	543.5	488.4	476.2
65°	585.5	541.6	470.6	420.2	404.3
67.5°	524.8	473.4	401.5	350.2	341.8
70°	458.5	405.3	331.5	281.1	267.1
72.5°	391.3	339.0	267.1	213.8	205.4
75°	325.9	266.1	198.0	156.9	139.1
77.5°	254.9	200.8	139.1	96.2	85.0
80°	189.6	135.4	80.3	57.0	56.0
82.5°	124.2	78.4	43.0	43.9	42.0
85°	63.5	33.6	28.9	28.0	27.1
87.5°	12.1	13.1	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)