

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: P1051029

Luminaire Tested: 24PTR-40-PW1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051029
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-L840-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

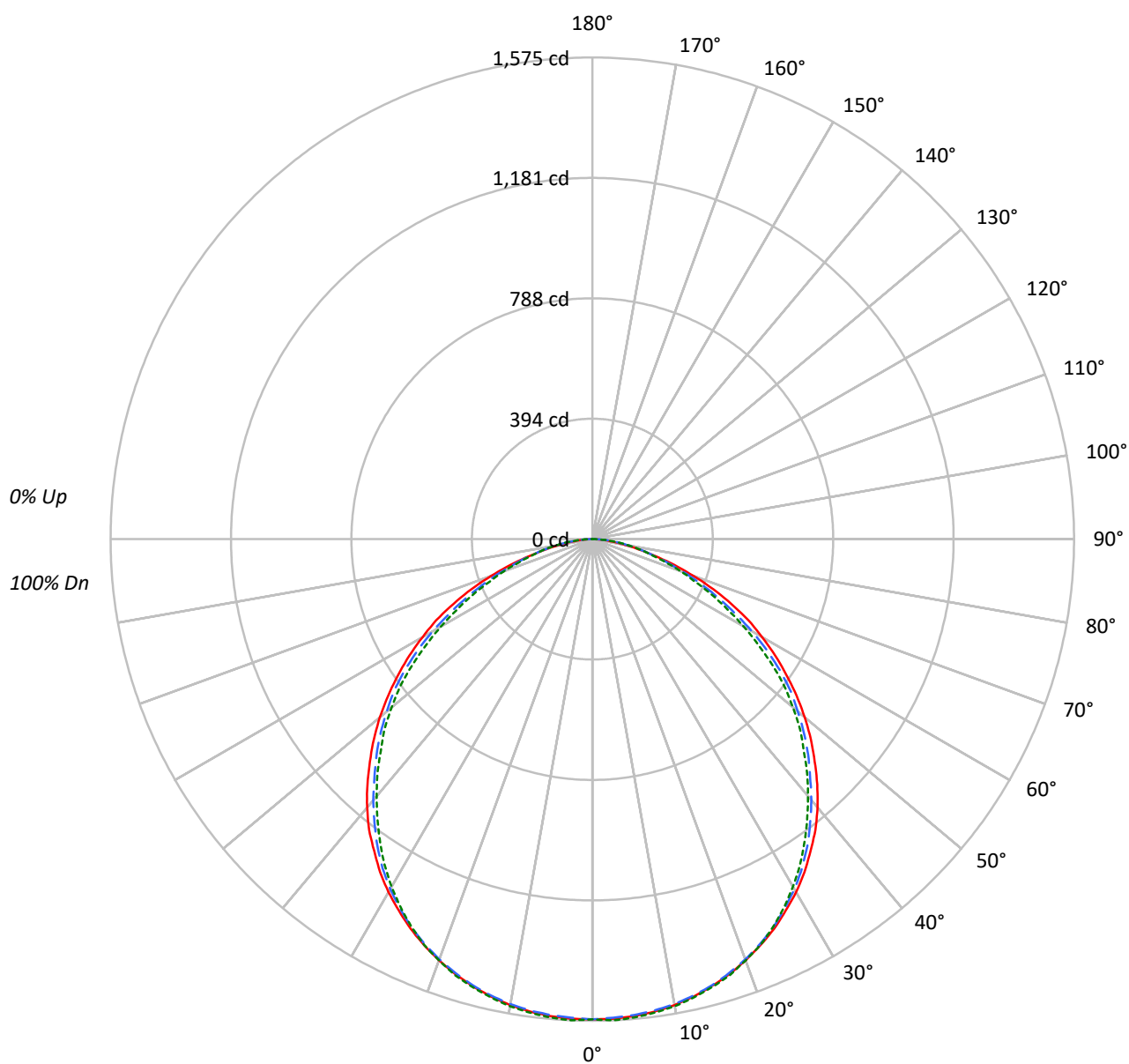
Lumens per Lamp: N/A
Luminaire Lumens: 4167.1 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2113	2113	2113
5°	2115	2110	2121
10°	2114	2109	2119
15°	2107	2104	2112
20°	2099	2094	2099
25°	2087	2078	2077
30°	2071	2053	2039
35°	2043	2012	1987
40°	2012	1957	1926
45°	1956	1898	1860
50°	1897	1835	1793
55°	1818	1757	1687
60°	1724	1622	1537
65°	1595	1449	1377
70°	1382	1261	1214
75°	1104	1079	1050
80°	838	937	937
85°	621	800	800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1956 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	3.6
10°-20°	427.1	10.2
20°-30°	645.5	15.5
30°-40°	766.5	18.4
40°-50°	772.2	18.5
50°-60°	667.5	16.0
60°-70°	456.2	10.9
70°-80°	224.9	5.4
80°-90°	58.2	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°	1221.6	29.3
0°-40°	1988.1	47.7
0°-60°	3427.8	82.3
0°-90°	4167.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4167.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1566	1566	1562	1568	1570	149
15°	1513	1514	1510	1516	1516	427
25°	1406	1404	1400	1401	1399	648
35°	1244	1240	1225	1214	1210	779
45°	1028	1017	998	986	977	793
55°	775	773	749	727	719	693
65°	501	483	455	435	432	494
75°	212	211	208	208	202	231
85°	40	47	52	53	52	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.2	1570.2	1570.2	1570.2	1570.2
2.5°	1569.8	1570.2	1566.2	1573.2	1574.9
5°	1565.6	1566.2	1562.2	1568.5	1570.2
7.5°	1558.2	1559.2	1554.6	1560.9	1562.2
10°	1547.0	1547.6	1543.6	1549.9	1551.2
12.5°	1532.0	1532.4	1529.0	1534.7	1534.7
15°	1512.7	1514.4	1510.4	1515.7	1516.1
17.5°	1491.2	1491.8	1487.8	1493.5	1494.8
20°	1465.6	1465.6	1462.2	1466.9	1465.6
22.5°	1437.0	1437.0	1433.0	1435.4	1436.4
25°	1405.8	1404.5	1399.8	1401.1	1398.8
27.5°	1369.6	1369.6	1361.4	1361.4	1357.3
30°	1333.0	1330.1	1321.4	1316.1	1312.1
32.5°	1291.0	1286.9	1275.9	1266.6	1263.7
35°	1244.0	1239.8	1225.2	1214.2	1209.6
37.5°	1198.6	1189.3	1170.0	1159.0	1153.7
40°	1145.5	1133.9	1114.2	1099.0	1096.7
42.5°	1088.6	1079.3	1053.7	1042.5	1039.8
45°	1028.2	1016.9	997.7	986.1	977.4
47.5°	968.7	960.5	938.5	924.6	921.6
50°	906.4	899.4	876.8	861.8	856.5
52.5°	841.9	837.2	818.0	798.8	792.4
55°	775.1	772.8	748.9	726.7	719.1
57.5°	709.3	706.4	676.6	651.0	644.0
60°	640.6	631.9	602.8	578.9	571.3
62.5°	575.5	556.9	525.4	506.8	498.1
65°	500.9	482.9	455.0	435.1	432.4
67.5°	427.7	406.1	384.6	372.3	363.0
70°	351.4	336.8	320.5	310.2	308.5
72.5°	280.3	270.0	261.7	255.4	250.1
75°	212.3	210.6	207.6	207.6	201.9
77.5°	156.0	160.0	162.4	161.7	163.0
80°	108.2	116.3	120.9	121.6	120.9
82.5°	68.7	78.0	85.6	86.7	88.0
85°	40.2	47.1	51.8	52.9	51.8
87.5°	18.0	22.6	23.9	24.9	23.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)