

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: P1051040

Luminaire Tested: 24PTR-40-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051040
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-L850-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

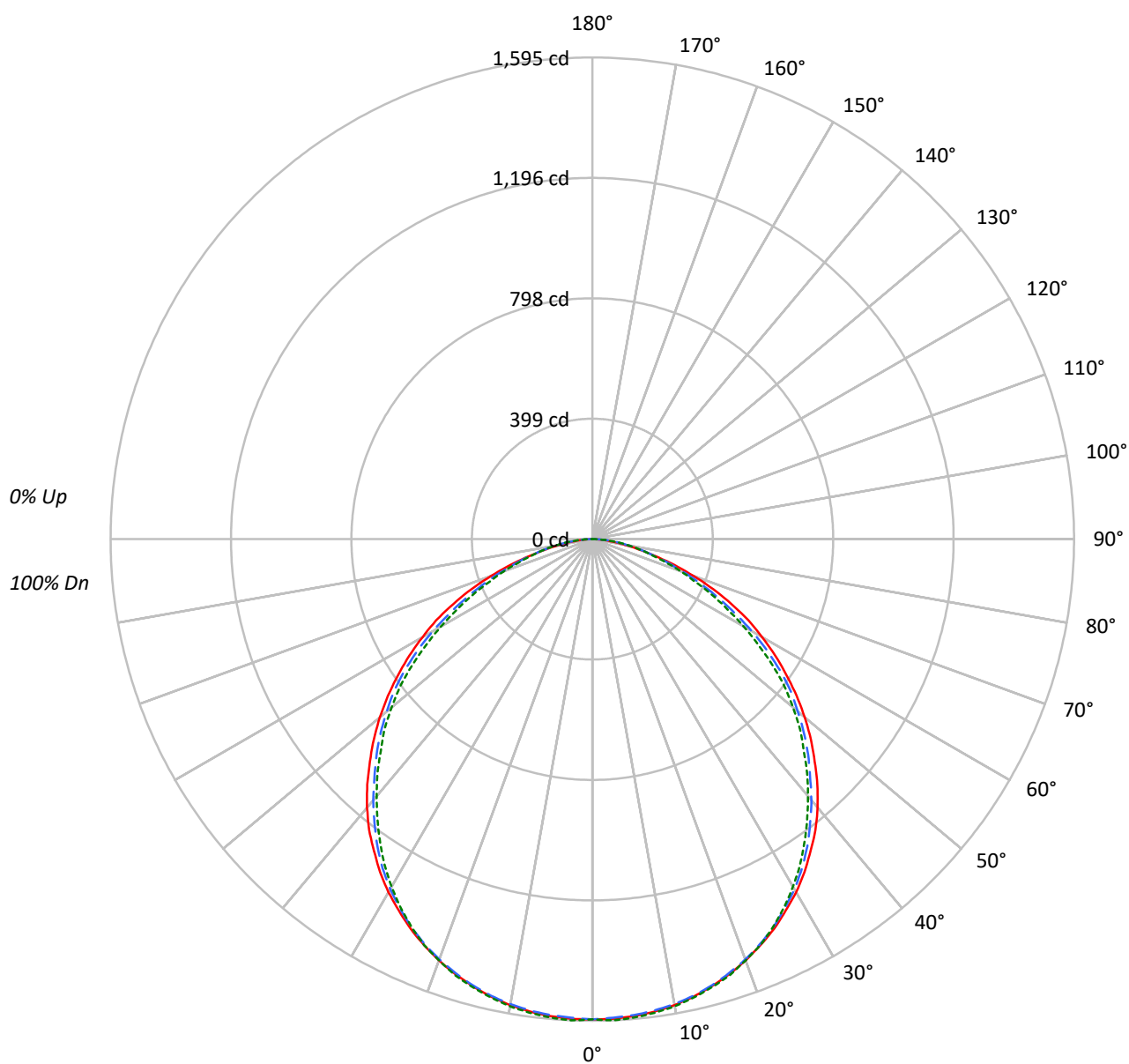
Lumens per Lamp: N/A
Luminaire Lumens: 4220.5 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2140	2140	2140
5°	2142	2137	2148
10°	2141	2136	2147
15°	2134	2131	2139
20°	2125	2120	2125
25°	2114	2105	2103
30°	2098	2079	2065
35°	2069	2038	2012
40°	2038	1982	1951
45°	1981	1923	1884
50°	1922	1859	1816
55°	1841	1779	1708
60°	1746	1643	1557
65°	1615	1467	1394
70°	1400	1277	1229
75°	1118	1093	1063
80°	849	949	949
85°	628	810	810

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1981 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	3.6
10°-20°	432.6	10.2
20°-30°	653.8	15.5
30°-40°	776.3	18.4
40°-50°	782.1	18.5
50°-60°	676.0	16.0
60°-70°	462.1	10.9
70°-80°	227.8	5.4
80°-90°	58.9	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°	1237.2	29.3
0°-40°	2013.5	47.7
0°-60°	3471.7	82.3
0°-90°	4220.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4220.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1586	1586	1582	1589	1590	151
15°	1532	1534	1530	1535	1536	432
25°	1424	1422	1418	1419	1417	656
35°	1260	1256	1241	1230	1225	789
45°	1041	1030	1010	999	990	804
55°	785	783	758	736	728	702
65°	507	489	461	441	438	501
75°	215	213	210	210	204	234
85°	41	48	52	54	52	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.3	1590.3	1590.3	1590.3	1590.3
2.5°	1589.9	1590.3	1586.3	1593.3	1595.1
5°	1585.6	1586.3	1582.2	1588.6	1590.3
7.5°	1578.1	1579.2	1574.5	1580.9	1582.2
10°	1566.8	1567.4	1563.4	1569.8	1571.1
12.5°	1551.6	1552.0	1548.6	1554.4	1554.4
15°	1532.1	1533.8	1529.7	1535.1	1535.5
17.5°	1510.3	1510.9	1506.8	1512.6	1513.9
20°	1484.3	1484.3	1480.9	1485.6	1484.3
22.5°	1455.4	1455.4	1451.4	1453.7	1454.8
25°	1423.8	1422.5	1417.8	1419.0	1416.7
27.5°	1387.1	1387.1	1378.8	1378.8	1374.7
30°	1350.1	1347.1	1338.3	1333.0	1328.9
32.5°	1307.5	1303.4	1292.3	1282.9	1279.9
35°	1259.9	1255.7	1240.9	1229.7	1225.0
37.5°	1213.9	1204.5	1185.0	1173.9	1168.5
40°	1160.2	1148.4	1128.5	1113.0	1110.7
42.5°	1102.6	1093.1	1067.2	1055.9	1053.1
45°	1041.3	1030.0	1010.5	998.7	989.9
47.5°	981.1	972.8	950.5	936.4	933.4
50°	918.0	910.9	888.0	872.8	867.4
52.5°	852.7	848.0	828.5	809.0	802.6
55°	785.0	782.6	758.4	736.0	728.3
57.5°	718.4	715.4	685.2	659.3	652.2
60°	648.8	640.0	610.5	586.3	578.6
62.5°	582.9	564.0	532.1	513.3	504.5
65°	507.3	489.1	460.8	440.7	437.9
67.5°	433.2	411.3	389.5	377.1	367.7
70°	355.9	341.1	324.6	314.1	312.4
72.5°	283.9	273.4	265.1	258.7	253.3
75°	215.0	213.3	210.3	210.3	204.5
77.5°	158.0	162.1	164.5	163.8	165.1
80°	109.6	117.8	122.5	123.1	122.5
82.5°	69.6	79.0	86.7	87.8	89.1
85°	40.7	47.8	52.5	53.5	52.5
87.5°	18.2	22.9	24.2	25.3	24.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)