

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: P1050809

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40-PLG-L850-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

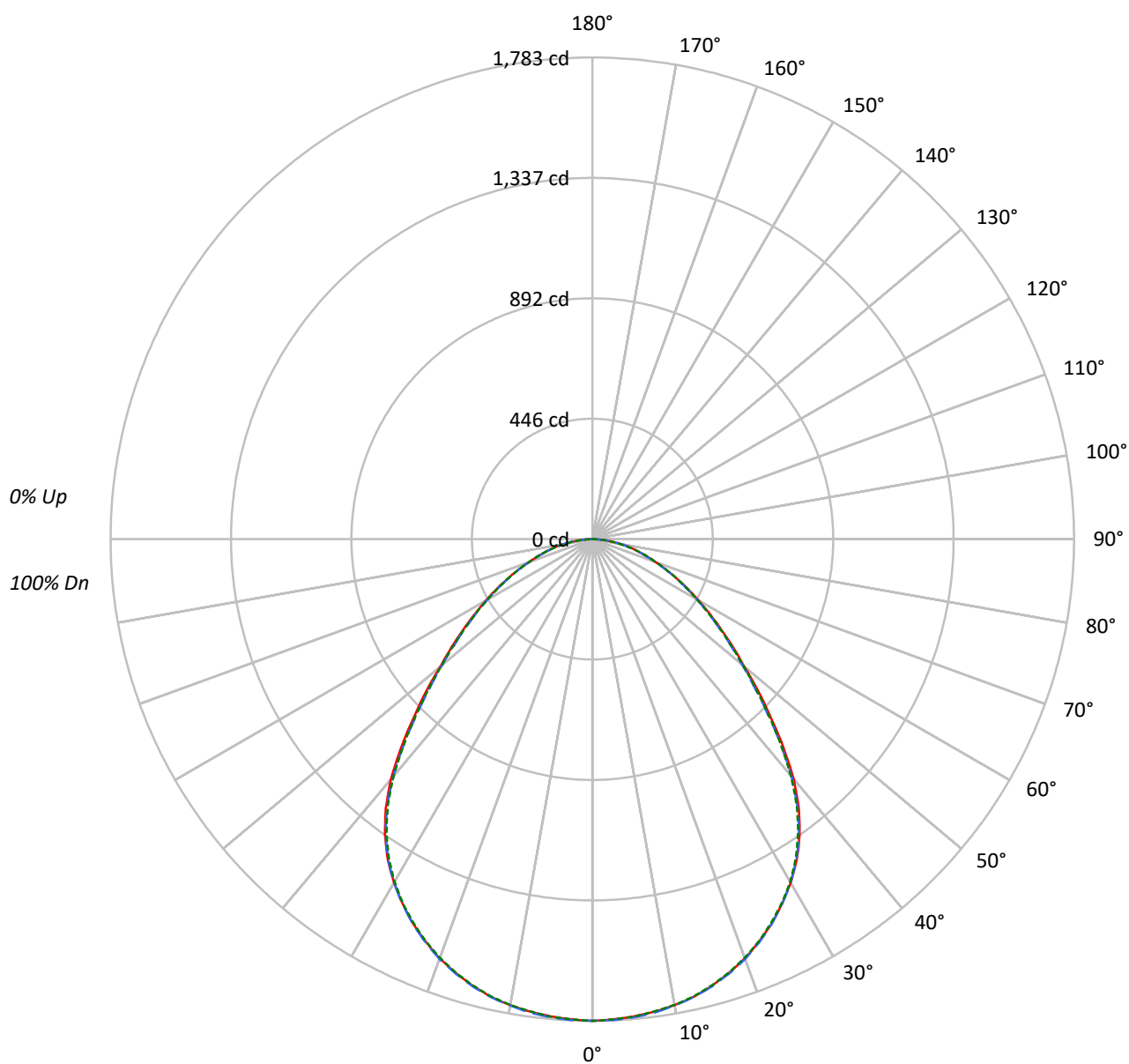
Lumens per Lamp: N/A
Luminaire Lumens: 4018.2 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2399	2399	2399
5°	2395	2400	2397
10°	2393	2395	2391
15°	2383	2387	2382
20°	2365	2369	2361
25°	2332	2334	2326
30°	2281	2281	2275
35°	2197	2191	2181
40°	2036	2014	2007
45°	1780	1751	1758
50°	1537	1518	1526
55°	1366	1345	1348
60°	1223	1206	1206
65°	1096	1088	1092
70°	986	976	986
75°	914	901	914
80°	853	843	814
85°	722	722	645

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1780 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	4.2
10°-20°	483.1	12.0
20°-30°	722.8	18.0
30°-40°	828.2	20.6
40°-50°	716.3	17.8
50°-60°	518.4	12.9
60°-70°	341.4	8.5
70°-80°	185.9	4.6
80°-90°	53.3	1.3
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°	1374.8	34.2
0°-40°	2203.0	54.8
0°-60°	3437.6	85.6
0°-90°	4018.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4018.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1773	1777	1777	1777	1774	169
15°	1711	1712	1714	1716	1710	483
25°	1571	1571	1572	1573	1567	722
35°	1338	1336	1334	1333	1328	831
45°	935	933	920	919	924	724
55°	582	580	573	570	575	524
65°	344	347	342	339	343	344
75°	176	176	173	173	176	187
85°	47	47	47	48	42	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.3	1783.3	1783.3	1783.3	1783.3
2.5°	1779.5	1783.3	1782.0	1783.3	1779.5
5°	1773.1	1776.9	1776.9	1776.9	1774.4
7.5°	1764.3	1766.8	1768.1	1769.3	1763.0
10°	1751.6	1754.1	1752.9	1755.4	1750.4
12.5°	1735.2	1735.2	1736.4	1739.0	1733.9
15°	1711.1	1712.4	1713.6	1716.2	1709.9
17.5°	1683.3	1684.5	1685.8	1687.1	1682.0
20°	1651.6	1651.6	1654.2	1655.4	1649.1
22.5°	1612.4	1612.4	1614.9	1618.7	1611.1
25°	1570.6	1570.6	1571.9	1573.2	1566.8
27.5°	1521.3	1521.3	1522.5	1526.3	1518.7
30°	1468.1	1466.9	1468.1	1469.4	1464.3
32.5°	1408.6	1407.4	1406.1	1407.4	1401.0
35°	1337.8	1336.5	1334.0	1332.7	1327.6
37.5°	1255.5	1253.0	1247.9	1247.9	1242.8
40°	1159.3	1153.0	1146.7	1144.1	1142.9
42.5°	1047.9	1042.9	1034.0	1032.7	1032.7
45°	935.3	932.8	920.1	918.8	923.9
47.5°	834.0	827.7	816.3	813.8	821.4
50°	734.1	735.3	725.2	721.4	729.0
52.5°	655.6	653.1	644.2	641.7	648.0
55°	582.2	579.7	573.3	569.5	574.6
57.5°	515.1	513.8	507.5	506.2	508.8
60°	454.4	453.1	448.0	446.8	448.0
62.5°	397.4	397.4	392.3	389.8	393.6
65°	344.2	346.8	341.7	339.2	343.0
67.5°	296.2	298.7	293.6	291.1	296.2
70°	250.6	253.1	248.1	245.5	250.6
72.5°	211.4	212.6	208.8	207.6	213.9
75°	175.9	175.9	173.4	173.4	175.9
77.5°	143.0	141.7	140.5	140.5	138.0
80°	110.1	108.8	108.8	108.8	105.0
82.5°	78.5	75.9	77.2	78.5	72.1
85°	46.8	46.8	46.8	48.1	41.8
87.5°	19.0	19.0	17.7	19.0	16.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)