

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: P1050849

Luminaire Tested: 24PTR-90-PLG-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050849
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-90-PLG-L940-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

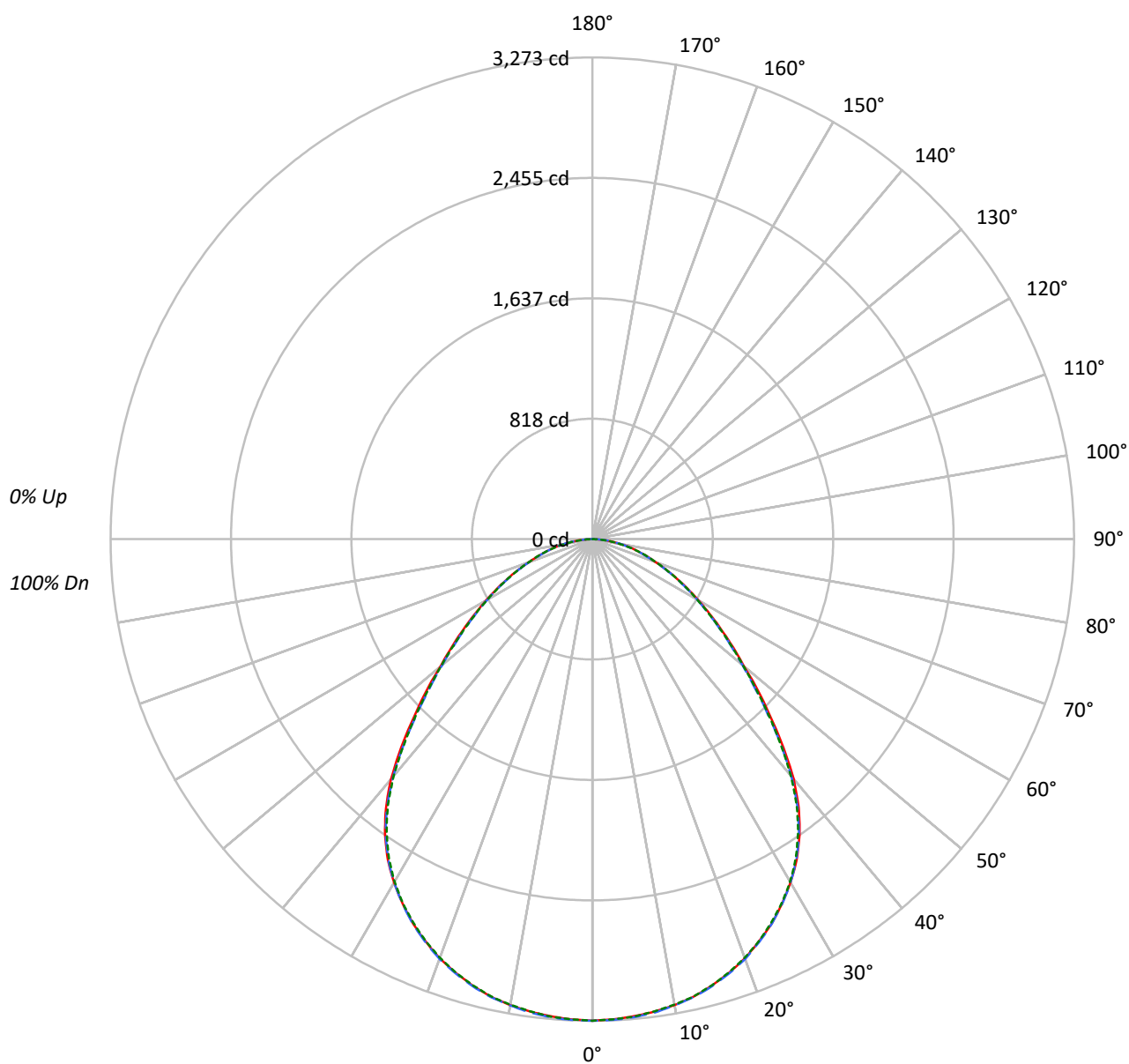
Lumens per Lamp: N/A
Luminaire Lumens: 7374.7 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4404	4404	4404
5°	4395	4405	4398
10°	4392	4395	4389
15°	4374	4381	4371
20°	4340	4347	4334
25°	4279	4283	4269
30°	4186	4186	4175
35°	4033	4021	4002
40°	3737	3696	3684
45°	3266	3213	3227
50°	2820	2786	2801
55°	2506	2468	2474
60°	2244	2213	2213
65°	2011	1997	2004
70°	1809	1791	1809
75°	1679	1654	1679
80°	1566	1548	1494
85°	1326	1326	1184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3266 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	4.2
10°-20°	886.6	12.0
20°-30°	1326.7	18.0
30°-40°	1520.0	20.6
40°-50°	1314.6	17.8
50°-60°	951.4	12.9
60°-70°	626.7	8.5
70°-80°	341.1	4.6
80°-90°	97.8	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°	2523.2	34.2
0°-40°	4043.1	54.8
0°-60°	6309.1	85.6
0°-90°	7374.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7374.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3273	3273	3273	3273	3273	
5°	3254	3261	3261	3261	3257	309
15°	3140	3143	3145	3150	3138	886
25°	2883	2883	2885	2887	2876	1326
35°	2455	2453	2448	2446	2437	1525
45°	1717	1712	1689	1686	1696	1329
55°	1068	1064	1052	1045	1055	962
65°	632	636	627	622	630	631
75°	323	323	318	318	323	344
85°	86	86	86	88	77	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3272.9	3272.9	3272.9	3272.9	3272.9
2.5°	3265.9	3272.9	3270.5	3272.9	3265.9
5°	3254.3	3261.2	3261.2	3261.2	3256.6
7.5°	3238.0	3242.7	3245.0	3247.3	3235.7
10°	3214.8	3219.4	3217.1	3221.7	3212.5
12.5°	3184.6	3184.6	3186.9	3191.6	3182.3
15°	3140.4	3142.8	3145.1	3149.7	3138.1
17.5°	3089.3	3091.7	3094.0	3096.3	3087.0
20°	3031.3	3031.3	3035.9	3038.2	3026.6
22.5°	2959.3	2959.3	2963.9	2970.9	2956.9
25°	2882.6	2882.6	2884.9	2887.3	2875.6
27.5°	2792.0	2792.0	2794.3	2801.3	2787.4
30°	2694.5	2692.1	2694.5	2696.8	2687.5
32.5°	2585.3	2583.0	2580.7	2583.0	2571.4
35°	2455.2	2452.9	2448.3	2445.9	2436.6
37.5°	2304.2	2299.6	2290.3	2290.3	2281.0
40°	2127.7	2116.1	2104.5	2099.8	2097.5
42.5°	1923.3	1914.0	1897.7	1895.4	1895.4
45°	1716.6	1711.9	1688.7	1686.4	1695.7
47.5°	1530.7	1519.1	1498.2	1493.6	1507.5
50°	1347.2	1349.6	1331.0	1324.0	1337.9
52.5°	1203.2	1198.6	1182.3	1177.7	1189.3
55°	1068.5	1063.9	1052.2	1045.3	1054.6
57.5°	945.4	943.1	931.4	929.1	933.8
60°	833.9	831.6	822.3	820.0	822.3
62.5°	729.4	729.4	720.1	715.4	722.4
65°	631.8	636.5	627.2	622.5	629.5
67.5°	543.5	548.2	538.9	534.2	543.5
70°	459.9	464.6	455.3	450.6	459.9
72.5°	387.9	390.2	383.3	380.9	392.6
75°	322.9	322.9	318.2	318.2	322.9
77.5°	262.5	260.2	257.8	257.8	253.2
80°	202.1	199.8	199.8	199.8	192.8
82.5°	144.0	139.4	141.7	144.0	132.4
85°	85.9	85.9	85.9	88.3	76.7
87.5°	34.8	34.8	32.5	34.8	30.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)