

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: P1050651

Luminaire Tested: 24PTR-90-PC3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PC3-L840-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

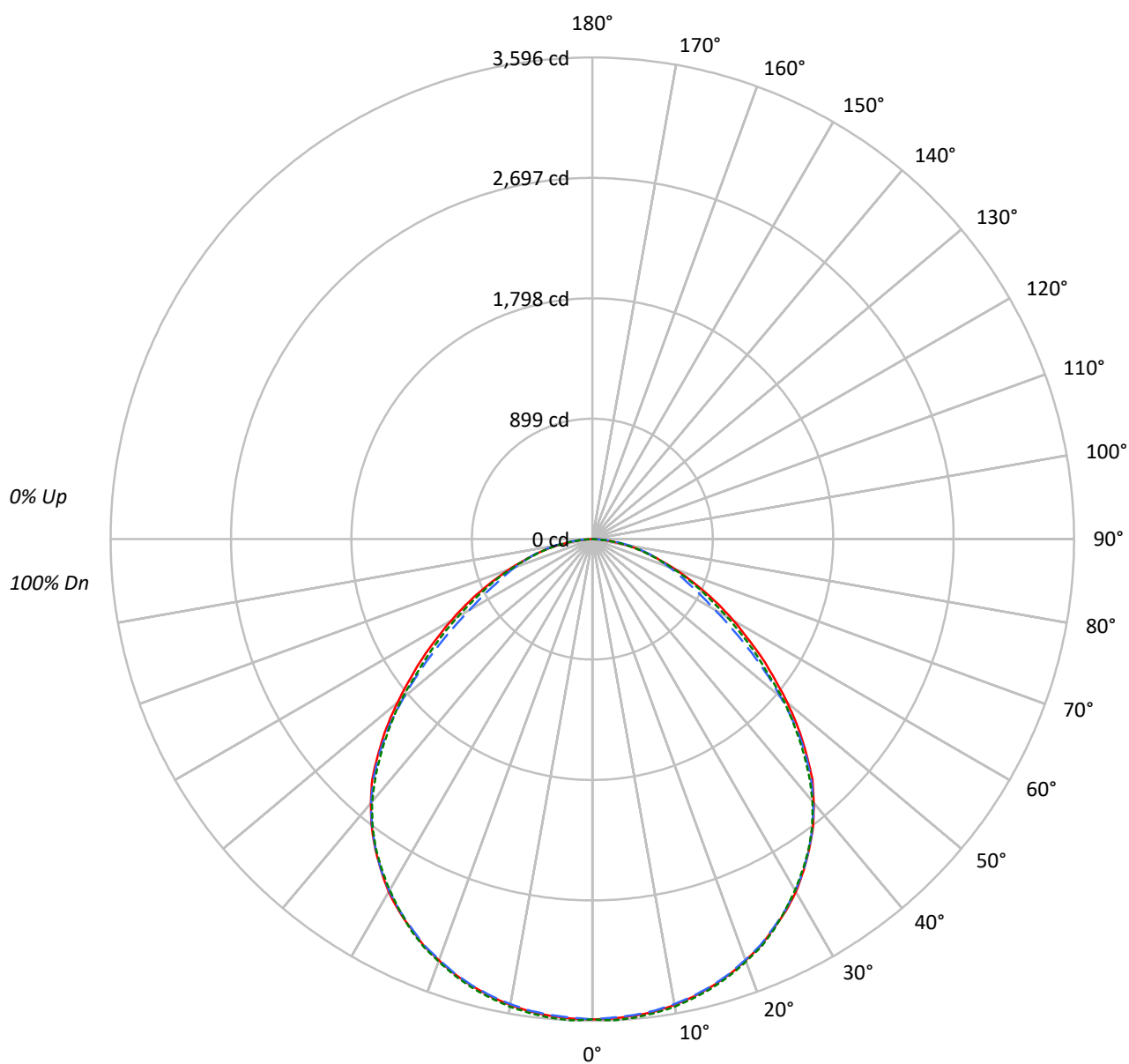
Lumens per Lamp: N/A
Luminaire Lumens: 9039.4 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	72
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4824	4824	4824
5°	4826	4817	4845
10°	4825	4817	4843
15°	4814	4809	4830
20°	4792	4785	4806
25°	4760	4752	4771
30°	4724	4708	4700
35°	4639	4634	4626
40°	4516	4509	4489
45°	4295	4263	4219
50°	3975	3842	3885
55°	3628	3334	3483
60°	3271	2844	3120
65°	2924	2544	2805
70°	2594	2407	2522
75°	2294	2333	2248
80°	1978	2228	1967
85°	1482	1763	1482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.1	3.8
10°-20°	976.1	10.8
20°-30°	1477.9	16.3
30°-40°	1762.0	19.5
40°-50°	1721.6	19.0
50°-60°	1316.5	14.6
60°-70°	845.2	9.4
70°-80°	470.2	5.2
80°-90°	129.9	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°	2794.1	30.9
0°-40°	4556.0	50.4
0°-60°	7594.1	84.0
0°-90°	9039.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9039.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3586	3586	3586	3586	3586	
5°	3573	3575	3566	3583	3587	340
15°	3456	3459	3452	3464	3468	975
25°	3206	3210	3201	3211	3214	1479
35°	2824	2826	2821	2820	2816	1764
45°	2257	2262	2240	2235	2217	1737
55°	1546	1493	1421	1439	1485	1382
65°	918	848	799	826	881	916
75°	441	445	449	443	432	472
85°	96	113	114	110	96	118
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3585.5	3585.5	3585.5	3585.5	3585.5
2.5°	3583.1	3584.5	3575.2	3590.6	3595.7
5°	3572.9	3575.2	3566.4	3583.1	3586.9
7.5°	3557.5	3559.8	3551.0	3567.8	3569.2
10°	3531.9	3533.3	3525.4	3542.1	3544.5
12.5°	3497.4	3501.1	3492.3	3507.7	3508.6
15°	3455.9	3458.7	3452.2	3463.9	3467.6
17.5°	3407.5	3408.9	3402.4	3414.9	3416.3
20°	3346.9	3346.9	3341.8	3356.2	3356.2
22.5°	3285.4	3281.7	3280.3	3285.4	3293.3
25°	3206.2	3209.9	3201.1	3211.3	3213.6
27.5°	3129.3	3129.3	3121.4	3126.5	3120.0
30°	3040.8	3035.7	3030.5	3031.5	3025.4
32.5°	2934.1	2934.1	2931.7	2931.7	2923.8
35°	2824.1	2826.4	2821.3	2819.9	2816.2
37.5°	2705.8	2710.0	2700.6	2698.3	2695.5
40°	2571.1	2571.1	2567.4	2562.2	2555.7
42.5°	2431.3	2431.3	2415.0	2402.0	2393.1
45°	2257.1	2262.2	2240.3	2235.2	2217.4
47.5°	2083.7	2080.0	2050.6	2046.9	2036.7
50°	1899.2	1877.3	1835.4	1846.6	1855.9
52.5°	1714.7	1687.7	1626.2	1638.7	1654.1
55°	1546.5	1492.9	1421.1	1438.8	1485.0
57.5°	1370.8	1299.1	1227.3	1260.9	1318.2
60°	1215.7	1135.0	1056.8	1092.6	1159.3
62.5°	1067.0	981.3	918.4	952.9	1009.2
65°	918.4	847.6	799.1	825.7	881.1
67.5°	782.3	734.8	701.7	714.3	759.0
70°	659.3	629.5	611.8	615.5	641.1
72.5°	542.4	534.9	528.4	528.4	530.7
75°	441.3	445.0	448.7	442.7	432.4
77.5°	347.6	360.2	369.5	356.5	343.9
80°	255.3	275.8	287.5	273.0	253.9
82.5°	174.3	197.6	201.3	192.4	170.5
85°	96.0	112.8	114.2	110.4	96.0
87.5°	35.9	42.4	46.1	42.4	37.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)