

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: P1051036

Luminaire Tested: 24PTR-90-PW1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051036
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-90-PW1-L840-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

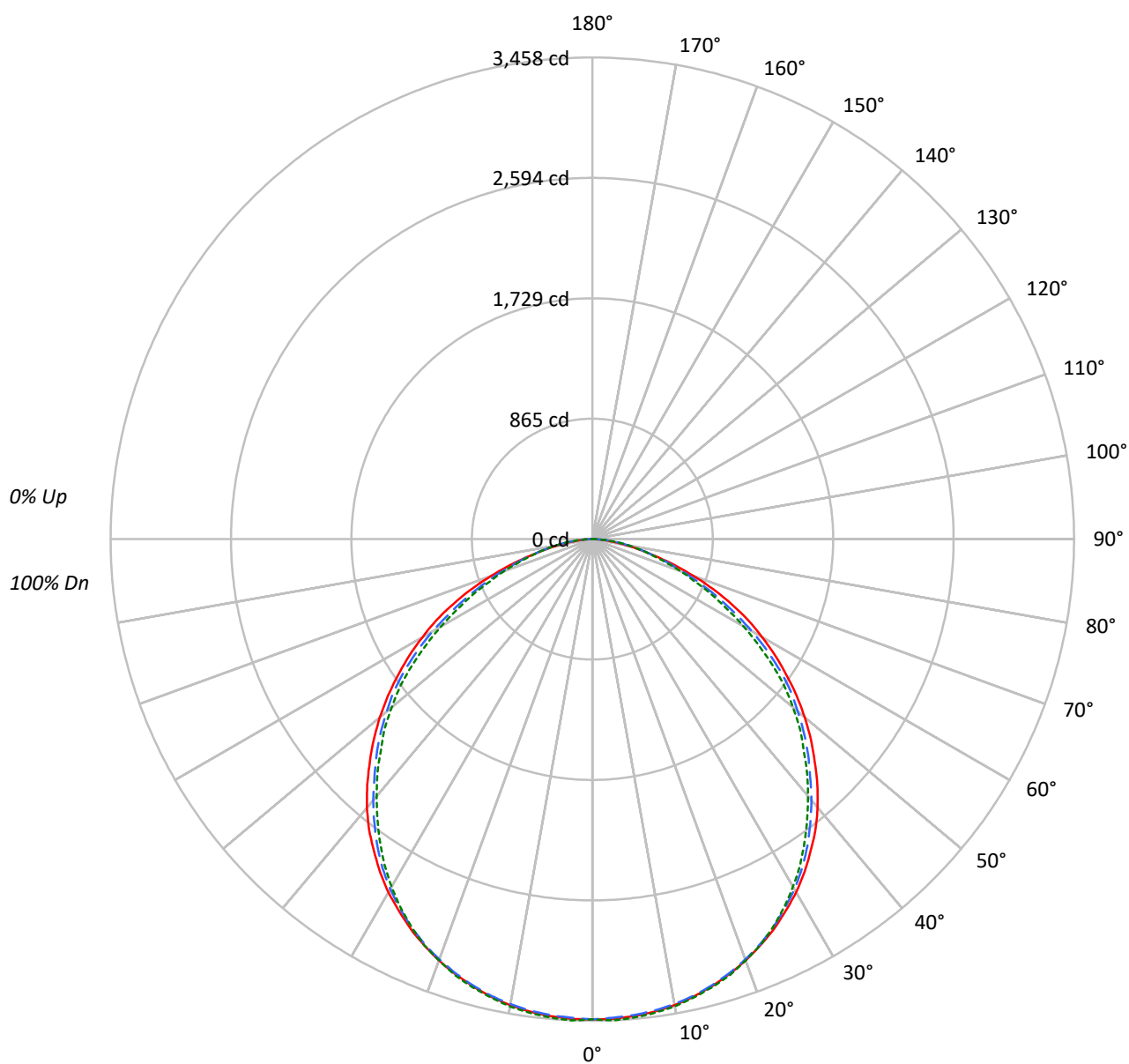
Lumens per Lamp: N/A
Luminaire Lumens: 9151.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4640	4640	4640
5°	4643	4633	4657
10°	4641	4631	4654
15°	4627	4620	4638
20°	4608	4598	4608
25°	4583	4564	4560
30°	4548	4508	4477
35°	4487	4419	4363
40°	4418	4298	4230
45°	4296	4169	4084
50°	4166	4030	3937
55°	3993	3858	3704
60°	3786	3562	3376
65°	3502	3181	3023
70°	3035	2769	2665
75°	2423	2370	2305
80°	1842	2058	2058
85°	1362	1755	1755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4296 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.0	3.6
10°-20°	938.0	10.2
20°-30°	1417.6	15.5
30°-40°	1683.2	18.4
40°-50°	1695.8	18.5
50°-60°	1465.8	16.0
60°-70°	1001.8	10.9
70°-80°	494.0	5.4
80°-90°	127.8	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°	2682.5	29.3
0°-40°	4365.8	47.7
0°-60°	7527.4	82.3
0°-90°	9151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3448	3448	3448	3448	3448	
5°	3438	3439	3431	3444	3448	327
15°	3322	3326	3317	3328	3329	938
25°	3087	3084	3074	3077	3072	1422
35°	2732	2723	2690	2666	2656	1710
45°	2258	2233	2191	2165	2146	1743
55°	1702	1697	1644	1596	1579	1522
65°	1100	1060	999	956	950	1086
75°	466	462	456	456	443	508
85°	88	104	114	116	114	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3448.2	3448.2	3448.2	3448.2	3448.2
2.5°	3447.3	3448.2	3439.4	3454.7	3458.5
5°	3438.0	3439.4	3430.6	3444.5	3448.2
7.5°	3421.8	3424.1	3413.9	3427.8	3430.6
10°	3397.2	3398.6	3389.7	3403.7	3406.5
12.5°	3364.2	3365.1	3357.7	3370.2	3370.2
15°	3322.0	3325.7	3316.9	3328.5	3329.4
17.5°	3274.6	3276.0	3267.2	3279.7	3282.5
20°	3218.4	3218.4	3211.0	3221.2	3218.4
22.5°	3155.7	3155.7	3146.9	3152.0	3154.4
25°	3087.0	3084.2	3074.0	3076.8	3071.7
27.5°	3007.6	3007.6	2989.5	2989.5	2980.7
30°	2927.3	2920.8	2901.8	2890.2	2881.4
32.5°	2834.9	2826.1	2802.0	2781.5	2775.0
35°	2731.9	2722.6	2690.5	2666.4	2656.2
37.5°	2632.0	2611.6	2569.4	2545.2	2533.6
40°	2515.5	2490.0	2446.8	2413.4	2408.2
42.5°	2390.6	2370.2	2314.0	2289.4	2283.4
45°	2257.8	2233.2	2191.0	2165.4	2146.4
47.5°	2127.4	2109.2	2061.0	2030.3	2023.8
50°	1990.4	1975.1	1925.4	1892.4	1880.8
52.5°	1848.8	1838.6	1796.3	1754.1	1740.1
55°	1702.1	1697.0	1644.5	1595.7	1579.0
57.5°	1557.7	1551.2	1485.7	1429.5	1414.2
60°	1406.8	1387.7	1323.7	1271.2	1254.5
62.5°	1263.8	1222.9	1153.7	1112.9	1093.9
65°	1099.9	1060.4	999.1	955.5	949.5
67.5°	939.2	891.9	844.5	817.6	797.2
70°	771.6	739.6	703.9	681.1	677.4
72.5°	615.6	592.9	574.8	560.9	549.2
75°	466.1	462.4	455.9	455.9	443.4
77.5°	342.6	351.5	356.6	355.2	358.0
80°	237.7	255.4	265.6	267.0	265.6
82.5°	150.9	171.3	188.0	190.4	193.1
85°	88.2	103.5	113.7	116.1	113.7
87.5°	39.5	49.7	52.5	54.8	52.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)