

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: P1051014

Luminaire Tested: 24PTR-90-PW1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051014
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-L830-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

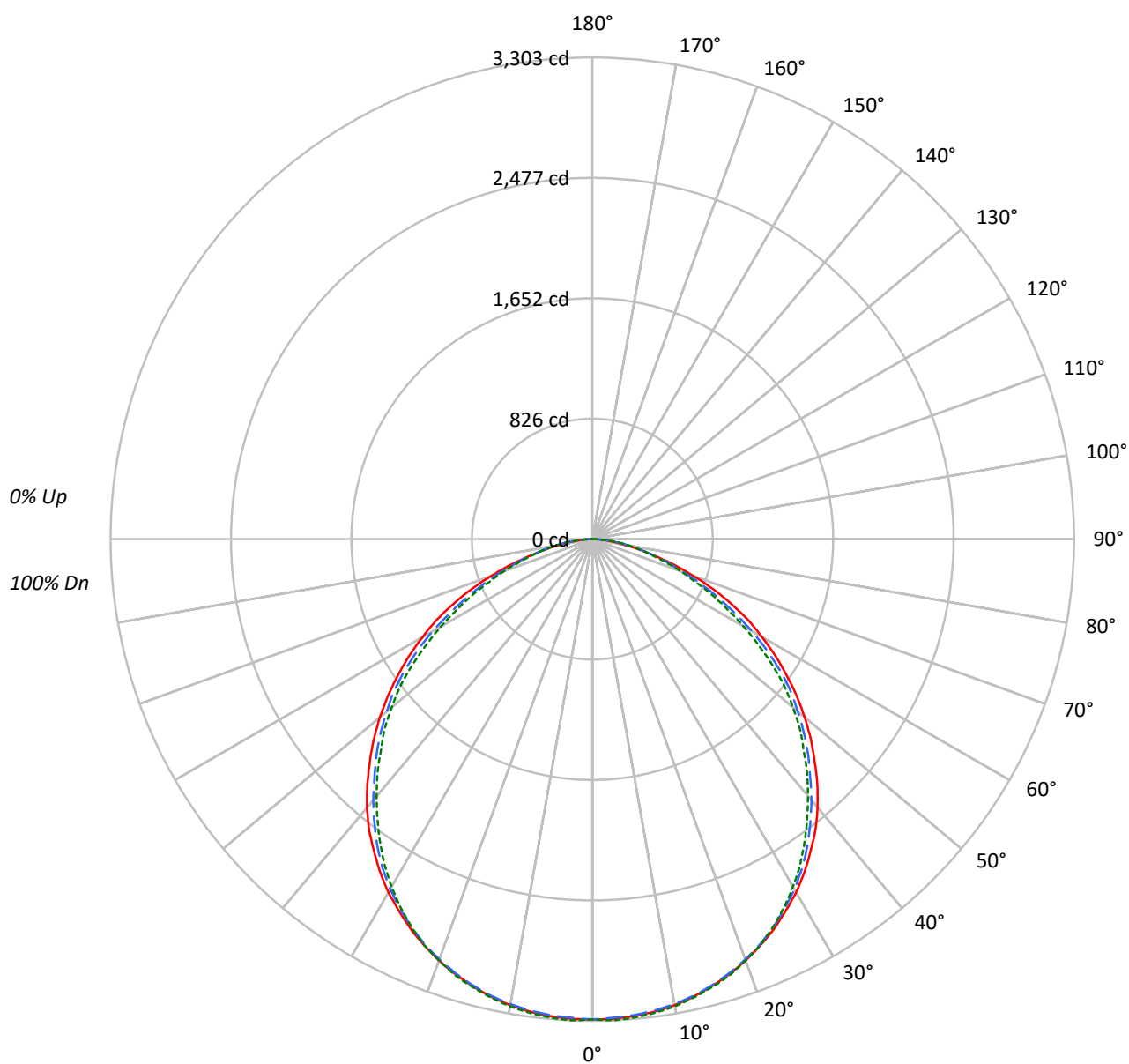
Lumens per Lamp: N/A
Luminaire Lumens: 8740.7 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4432	4432	4432
5°	4435	4426	4448
10°	4433	4424	4445
15°	4420	4413	4430
20°	4402	4391	4402
25°	4377	4359	4356
30°	4344	4306	4276
35°	4286	4221	4167
40°	4220	4105	4040
45°	4104	3982	3901
50°	3979	3850	3760
55°	3814	3685	3538
60°	3616	3402	3224
65°	3345	3038	2887
70°	2899	2645	2545
75°	2314	2264	2202
80°	1760	1966	1966
85°	1301	1677	1677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.3	3.6
10°-20°	895.9	10.2
20°-30°	1354.0	15.5
30°-40°	1607.7	18.4
40°-50°	1619.8	18.5
50°-60°	1400.1	16.0
60°-70°	956.9	10.9
70°-80°	471.9	5.4
80°-90°	122.0	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°	2562.3	29.3
0°-40°	4170.0	47.7
0°-60°	7189.9	82.3
0°-90°	8740.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8740.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3294	3294	3294	3294	3294	
5°	3284	3285	3277	3290	3294	312
15°	3173	3177	3168	3179	3180	896
25°	2949	2946	2936	2939	2934	1358
35°	2609	2600	2570	2547	2537	1633
45°	2157	2133	2093	2068	2050	1664
55°	1626	1621	1571	1524	1508	1454
65°	1051	1013	954	913	907	1037
75°	445	442	436	436	424	485
85°	84	99	109	111	109	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3293.6	3293.6	3293.6	3293.6	3293.6
2.5°	3292.7	3293.6	3285.2	3299.8	3303.4
5°	3283.9	3285.2	3276.8	3290.1	3293.6
7.5°	3268.4	3270.6	3260.8	3274.1	3276.8
10°	3244.8	3246.2	3237.8	3251.1	3253.7
12.5°	3213.4	3214.3	3207.2	3219.1	3219.1
15°	3173.0	3176.6	3168.1	3179.2	3180.1
17.5°	3127.8	3129.1	3120.7	3132.7	3135.3
20°	3074.1	3074.1	3067.0	3076.8	3074.1
22.5°	3014.2	3014.2	3005.8	3010.7	3012.9
25°	2948.6	2946.0	2936.2	2938.9	2934.0
27.5°	2872.8	2872.8	2855.5	2855.5	2847.1
30°	2796.1	2789.9	2771.7	2760.6	2752.2
32.5°	2707.8	2699.4	2676.3	2656.8	2650.6
35°	2609.4	2600.5	2569.9	2546.8	2537.1
37.5°	2514.0	2494.5	2454.1	2431.1	2420.0
40°	2402.7	2378.3	2337.1	2305.1	2300.3
42.5°	2283.4	2263.9	2210.2	2186.7	2181.0
45°	2156.6	2133.1	2092.7	2068.3	2050.1
47.5°	2032.0	2014.7	1968.6	1939.3	1933.1
50°	1901.1	1886.5	1839.1	1807.6	1796.5
52.5°	1765.9	1756.1	1715.8	1675.4	1662.1
55°	1625.8	1620.9	1570.8	1524.2	1508.2
57.5°	1487.8	1481.6	1419.1	1365.4	1350.8
60°	1343.7	1325.5	1264.3	1214.2	1198.2
62.5°	1207.1	1168.1	1102.0	1063.0	1044.8
65°	1050.6	1012.9	954.3	912.7	906.9
67.5°	897.1	851.9	806.7	780.9	761.4
70°	737.0	706.4	672.3	650.6	647.0
72.5°	588.0	566.3	549.0	535.7	524.6
75°	445.2	441.7	435.5	435.5	423.5
77.5°	327.3	335.7	340.6	339.3	341.9
80°	227.1	243.9	253.7	255.0	253.7
82.5°	144.1	163.6	179.6	181.8	184.5
85°	84.3	98.9	108.6	110.9	108.6
87.5°	37.7	47.5	50.1	52.3	50.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)