

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: P1050958

Luminaire Tested: 24PTR-100-PR1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PR1-L840-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

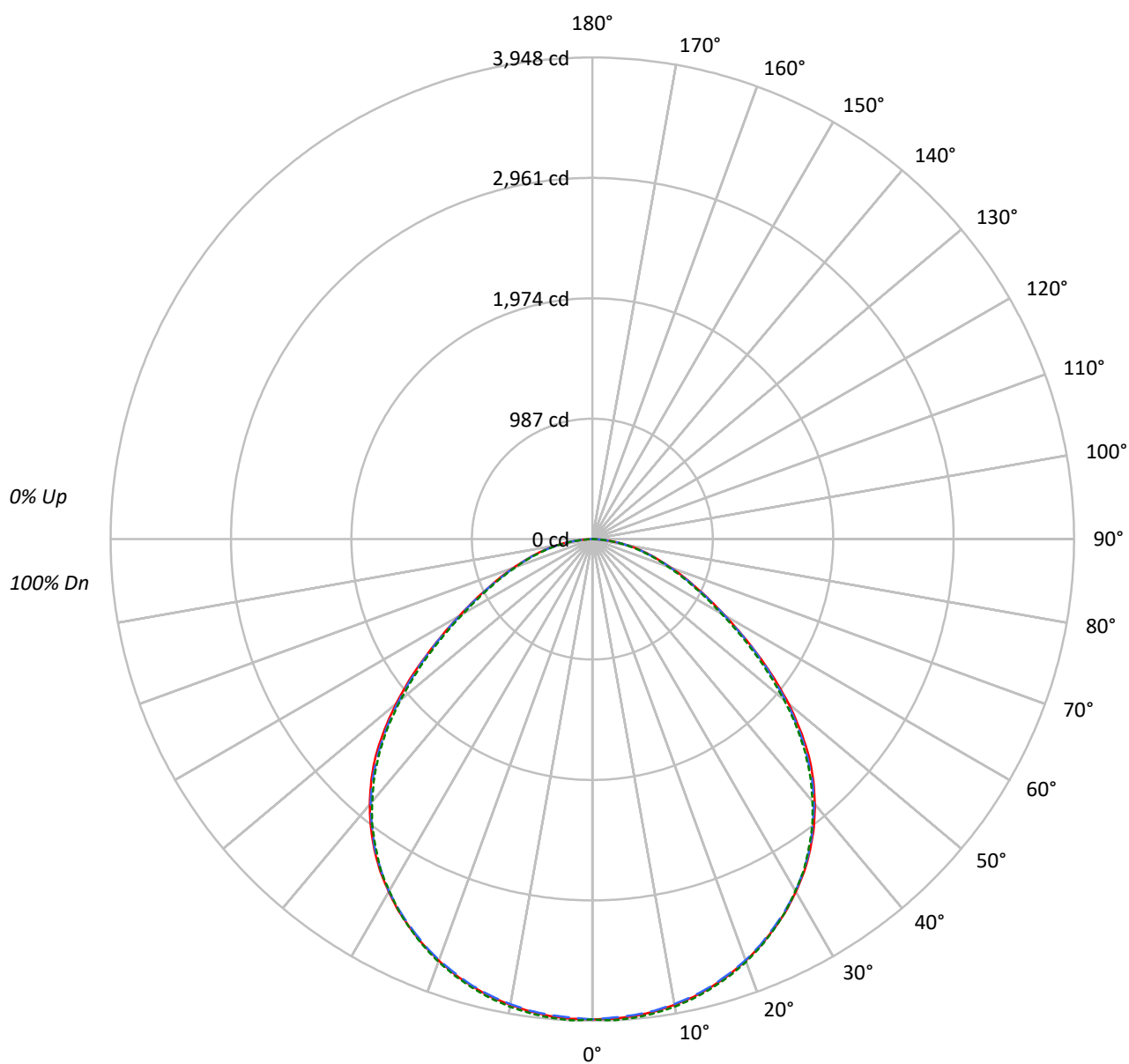
Lumens per Lamp: N/A
Luminaire Lumens: 9955.1 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 85
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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5296	5296	5296
5°	5301	5290	5319
10°	5297	5288	5316
15°	5287	5279	5304
20°	5265	5258	5279
25°	5230	5218	5237
30°	5184	5177	5171
35°	5113	5101	5080
40°	4983	4964	4929
45°	4776	4722	4688
50°	4394	4345	4291
55°	3889	3872	3796
60°	3380	3367	3276
65°	2978	2961	2902
70°	2702	2664	2609
75°	2502	2444	2399
80°	2284	2252	2177
85°	1805	1789	1717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4776 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.4	3.8
10°-20°	1071.7	10.8
20°-30°	1623.6	16.3
30°-40°	1938.2	19.5
40°-50°	1906.1	19.1
50°-60°	1473.2	14.8
60°-70°	929.0	9.3
70°-80°	502.5	5.0
80°-90°	137.3	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°	3068.7	30.8
0°-40°	5007.0	50.3
0°-60°	8386.4	84.2
0°-90°	9955.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9955.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3936	3936	3936	3936	3936	
5°	3925	3927	3916	3933	3938	373
15°	3795	3796	3790	3802	3808	1071
25°	3523	3526	3514	3526	3527	1624
35°	3113	3114	3105	3101	3093	1943
45°	2510	2500	2482	2462	2464	1922
55°	1658	1672	1651	1624	1618	1488
65°	936	937	930	914	911	941
75°	481	476	470	473	461	511
85°	117	118	116	117	111	139
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3936.4	3936.4	3936.4	3936.4	3936.4
2.5°	3934.9	3936.4	3925.1	3943.6	3947.7
5°	3925.1	3926.7	3916.4	3933.3	3937.9
7.5°	3905.1	3908.2	3898.5	3915.4	3919.5
10°	3876.9	3880.0	3870.3	3887.2	3891.3
12.5°	3842.1	3843.1	3834.9	3850.3	3854.4
15°	3795.4	3796.5	3789.8	3802.1	3807.7
17.5°	3741.6	3743.1	3733.4	3748.8	3751.3
20°	3677.0	3678.0	3672.4	3685.2	3686.8
22.5°	3604.7	3607.8	3599.1	3610.4	3611.9
25°	3523.2	3525.8	3514.5	3525.8	3527.3
27.5°	3437.1	3438.1	3428.4	3437.1	3435.6
30°	3336.6	3345.4	3332.5	3329.5	3328.4
32.5°	3232.6	3233.6	3221.3	3218.2	3223.9
35°	3112.6	3113.6	3105.4	3101.3	3092.6
37.5°	2981.4	2981.4	2965.5	2962.9	2961.4
40°	2837.3	2835.8	2826.1	2816.3	2806.1
42.5°	2680.5	2683.6	2663.6	2646.7	2644.1
45°	2509.8	2500.0	2481.6	2462.1	2463.6
47.5°	2308.3	2310.9	2285.8	2269.9	2265.8
50°	2099.2	2099.2	2075.6	2058.7	2050.0
52.5°	1880.8	1882.3	1859.8	1837.2	1832.6
55°	1657.8	1671.6	1650.6	1624.0	1618.3
57.5°	1449.2	1460.5	1440.5	1412.3	1410.7
60°	1255.9	1256.9	1251.3	1224.6	1217.5
62.5°	1090.9	1083.7	1080.6	1066.8	1058.0
65°	935.5	937.1	929.9	914.0	911.4
67.5°	809.9	808.4	795.6	785.8	780.2
70°	686.9	682.8	677.2	669.0	663.3
72.5°	577.2	577.2	572.6	570.0	560.3
75°	481.3	475.7	470.1	472.6	461.4
77.5°	389.6	384.0	379.3	373.7	371.1
80°	294.8	289.1	290.7	281.9	280.9
82.5°	204.5	204.5	202.0	194.8	196.3
85°	116.9	118.4	115.9	116.9	111.2
87.5°	42.5	43.6	46.6	43.6	43.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)