

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: P1050649

Luminaire Tested: 24PTR-80-PC3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050649
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-80-PC3-L840-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

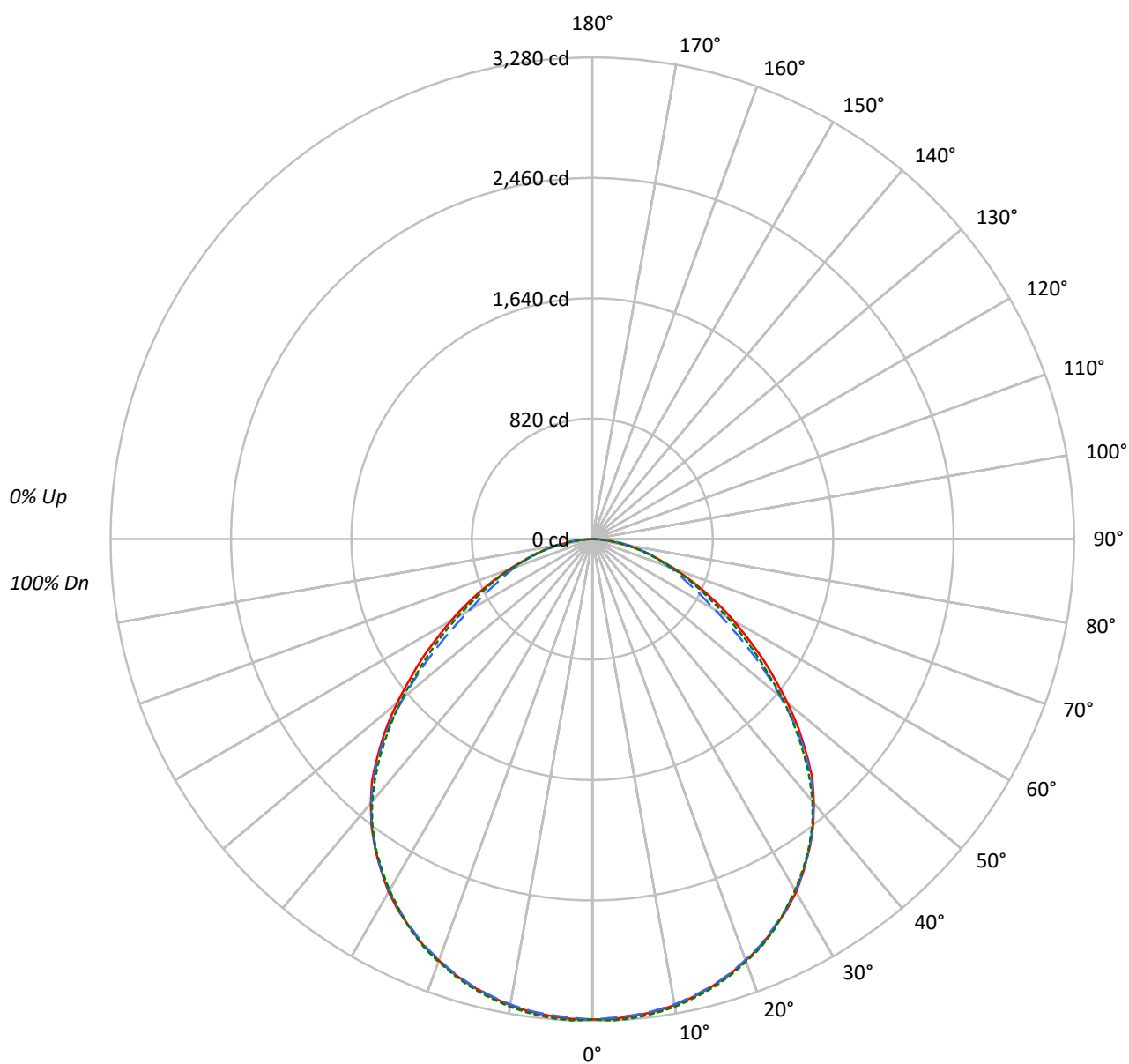
Lumens per Lamp: N/A
Luminaire Lumens: 8247.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68
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	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	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	46	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	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4401	4401	4401
5°	4403	4395	4420
10°	4402	4394	4418
15°	4392	4387	4407
20°	4372	4365	4384
25°	4343	4336	4353
30°	4310	4295	4288
35°	4232	4228	4220
40°	4120	4114	4095
45°	3918	3889	3849
50°	3627	3505	3544
55°	3310	3041	3178
60°	2985	2594	2846
65°	2668	2321	2559
70°	2366	2196	2301
75°	2093	2128	2051
80°	1805	2032	1795
85°	1352	1607	1352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.3	3.8
10°-20°	890.5	10.8
20°-30°	1348.3	16.3
30°-40°	1607.5	19.5
40°-50°	1570.7	19.0
50°-60°	1201.0	14.6
60°-70°	771.1	9.4
70°-80°	429.0	5.2
80°-90°	118.5	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°	2549.1	30.9
0°-40°	4156.6	50.4
0°-60°	6928.4	84.0
0°-90°	8247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3271	3271	3271	3271	3271	
5°	3260	3262	3254	3269	3272	310
15°	3153	3156	3150	3160	3164	890
25°	2925	2928	2920	2930	2932	1349
35°	2576	2579	2574	2573	2569	1610
45°	2059	2064	2044	2039	2023	1584
55°	1411	1362	1296	1313	1355	1261
65°	838	773	729	753	804	836
75°	403	406	409	404	394	430
85°	88	103	104	101	88	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3271.1	3271.1	3271.1	3271.1	3271.1
2.5°	3269.0	3270.3	3261.8	3275.8	3280.5
5°	3259.7	3261.8	3253.7	3269.0	3272.4
7.5°	3245.6	3247.8	3239.7	3255.0	3256.3
10°	3222.2	3223.5	3216.3	3231.6	3233.7
12.5°	3190.8	3194.2	3186.1	3200.1	3201.0
15°	3153.0	3155.5	3149.6	3160.2	3163.6
17.5°	3108.7	3110.0	3104.1	3115.5	3116.8
20°	3053.5	3053.5	3048.8	3062.0	3062.0
22.5°	2997.4	2994.0	2992.7	2997.4	3004.6
25°	2925.1	2928.5	2920.4	2929.8	2931.9
27.5°	2855.0	2855.0	2847.7	2852.4	2846.5
30°	2774.2	2769.5	2764.8	2765.7	2760.2
32.5°	2676.8	2676.8	2674.7	2674.7	2667.5
35°	2576.5	2578.6	2574.0	2572.7	2569.3
37.5°	2468.5	2472.4	2463.9	2461.7	2459.2
40°	2345.7	2345.7	2342.3	2337.6	2331.7
42.5°	2218.2	2218.2	2203.3	2191.4	2183.3
45°	2059.2	2063.9	2043.9	2039.2	2023.0
47.5°	1901.0	1897.6	1870.9	1867.5	1858.1
50°	1732.7	1712.7	1674.5	1684.7	1693.2
52.5°	1564.4	1539.7	1483.6	1495.1	1509.1
55°	1410.9	1362.0	1296.5	1312.7	1354.8
57.5°	1250.6	1185.2	1119.7	1150.3	1202.6
60°	1109.1	1035.5	964.1	996.9	1057.6
62.5°	973.5	895.3	837.9	869.3	920.8
65°	837.9	773.3	729.0	753.3	803.9
67.5°	713.7	670.4	640.2	651.7	692.5
70°	601.5	574.3	558.2	561.6	584.9
72.5°	494.8	488.0	482.1	482.1	484.2
75°	402.6	406.0	409.4	403.8	394.5
77.5°	317.1	328.6	337.1	325.2	313.7
80°	233.0	251.7	262.3	249.1	231.7
82.5°	159.0	180.2	183.6	175.6	155.6
85°	87.6	102.9	104.1	100.7	87.6
87.5°	32.7	38.7	42.1	38.7	34.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)