

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: P1050891

Luminaire Tested: 24PTR-80-PP3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PP3-L850-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

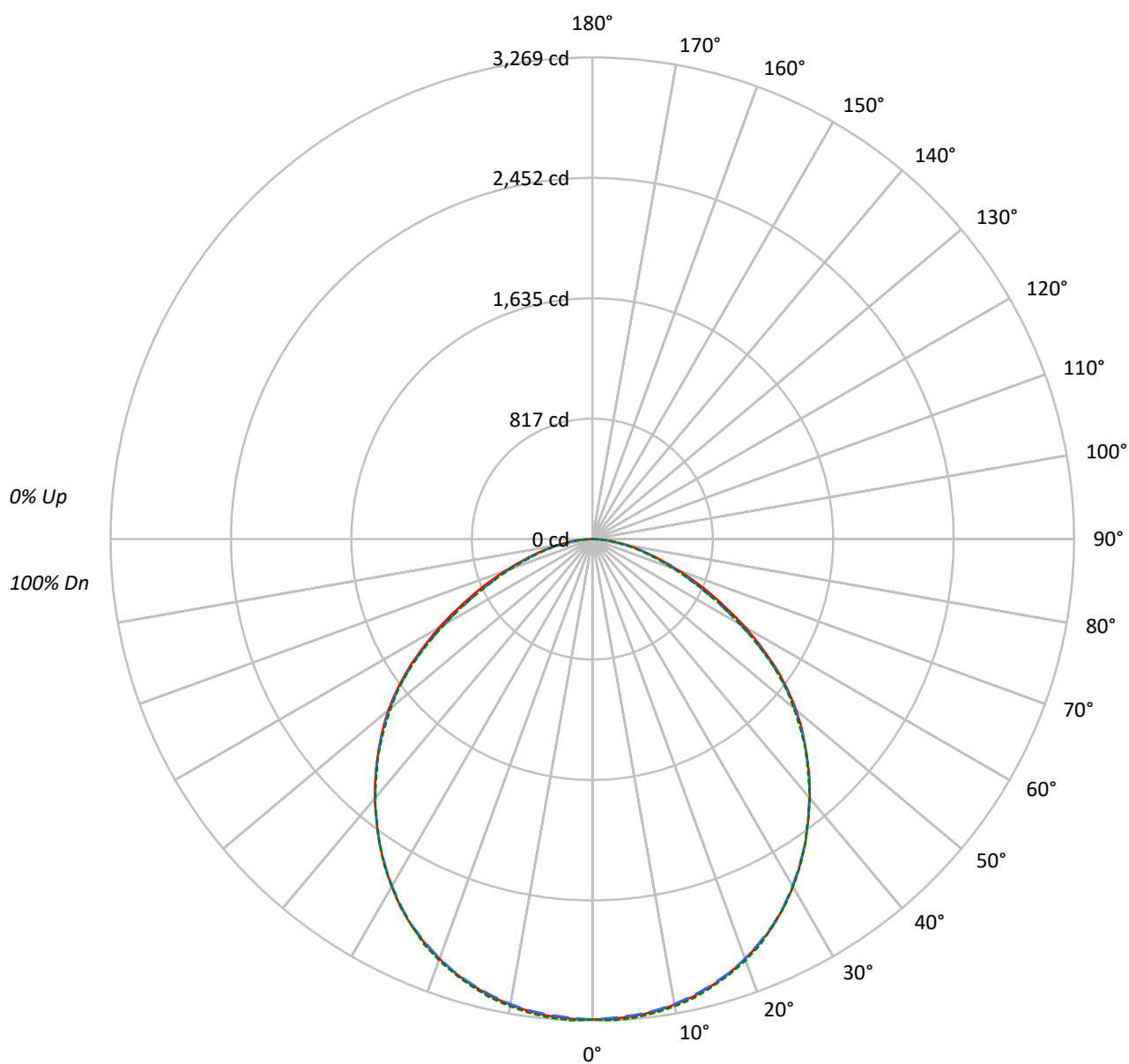
Lumens per Lamp: N/A
Luminaire Lumens: 8422.5 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4386	4386	4386
5°	4390	4380	4404
10°	4384	4377	4398
15°	4369	4361	4381
20°	4341	4337	4355
25°	4302	4295	4300
30°	4230	4221	4230
35°	4138	4132	4135
40°	4032	4019	4030
45°	3910	3899	3904
50°	3780	3762	3735
55°	3558	3517	3506
60°	3229	3120	3126
65°	2836	2694	2690
70°	2452	2341	2314
75°	2121	2043	1998
80°	1879	1852	1769
85°	1553	1606	1513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	3.7
10°-20°	885.6	10.5
20°-30°	1333.4	15.8
30°-40°	1573.7	18.7
40°-50°	1582.7	18.8
50°-60°	1336.2	15.9
60°-70°	858.1	10.2
70°-80°	426.8	5.1
80°-90°	116.9	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°	2528.1	30.0
0°-40°	4101.8	48.7
0°-60°	7020.7	83.4
0°-90°	8422.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8422.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3260	3260	3260	3260	3260	
5°	3250	3251	3243	3258	3261	309
15°	3137	3138	3131	3145	3145	885
25°	2898	2899	2893	2899	2896	1333
35°	2519	2520	2516	2518	2518	1574
45°	2055	2062	2049	2052	2052	1586
55°	1517	1516	1499	1493	1494	1349
65°	891	878	846	838	845	888
75°	408	406	393	389	384	442
85°	101	104	104	98	98	118
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3259.8	3259.8	3259.8	3259.8	3259.8
2.5°	3258.5	3259.8	3251.2	3266.7	3269.3
5°	3250.3	3251.2	3243.0	3258.5	3260.7
7.5°	3233.6	3234.9	3227.5	3241.7	3244.3
10°	3208.6	3212.5	3203.9	3217.2	3219.4
12.5°	3178.1	3179.4	3170.8	3186.3	3188.9
15°	3136.8	3137.7	3130.8	3145.0	3145.0
17.5°	3089.1	3090.4	3085.7	3097.7	3096.4
20°	3031.5	3034.9	3028.9	3037.1	3041.8
22.5°	2968.7	2970.0	2962.7	2973.5	2978.2
25°	2897.8	2898.6	2893.1	2898.6	2896.5
27.5°	2814.8	2817.0	2808.8	2814.8	2816.1
30°	2722.4	2728.4	2716.8	2721.5	2722.4
32.5°	2623.1	2626.5	2618.3	2619.6	2625.6
35°	2519.0	2520.3	2515.6	2517.7	2517.7
37.5°	2406.8	2411.5	2404.2	2407.7	2402.9
40°	2295.4	2290.7	2288.1	2290.7	2294.2
42.5°	2178.1	2179.4	2175.9	2173.3	2167.8
45°	2055.1	2062.4	2049.1	2051.7	2051.7
47.5°	1934.7	1935.6	1928.7	1921.4	1916.7
50°	1805.7	1805.7	1797.1	1791.6	1784.2
52.5°	1664.7	1662.6	1653.1	1647.1	1650.5
55°	1516.8	1515.5	1499.2	1493.2	1494.5
57.5°	1354.7	1357.3	1332.4	1326.4	1326.4
60°	1200.0	1187.9	1159.5	1151.4	1161.7
62.5°	1037.4	1023.3	992.7	992.7	1000.9
65°	890.8	877.9	846.1	837.5	844.8
67.5°	753.7	741.6	712.4	707.7	709.8
70°	623.4	613.1	595.0	584.3	588.2
72.5°	511.2	501.7	489.7	481.5	476.8
75°	408.0	405.9	393.0	389.1	384.4
77.5°	322.9	322.0	311.3	306.5	301.8
80°	242.5	241.2	239.0	231.7	228.3
82.5°	172.8	172.8	171.5	165.5	162.1
85°	100.6	104.0	104.0	98.0	98.0
87.5°	40.4	42.6	40.4	40.4	39.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)