

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: P1051045

Luminaire Tested: 24PTR-80-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051045
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-80-PW1-L850-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

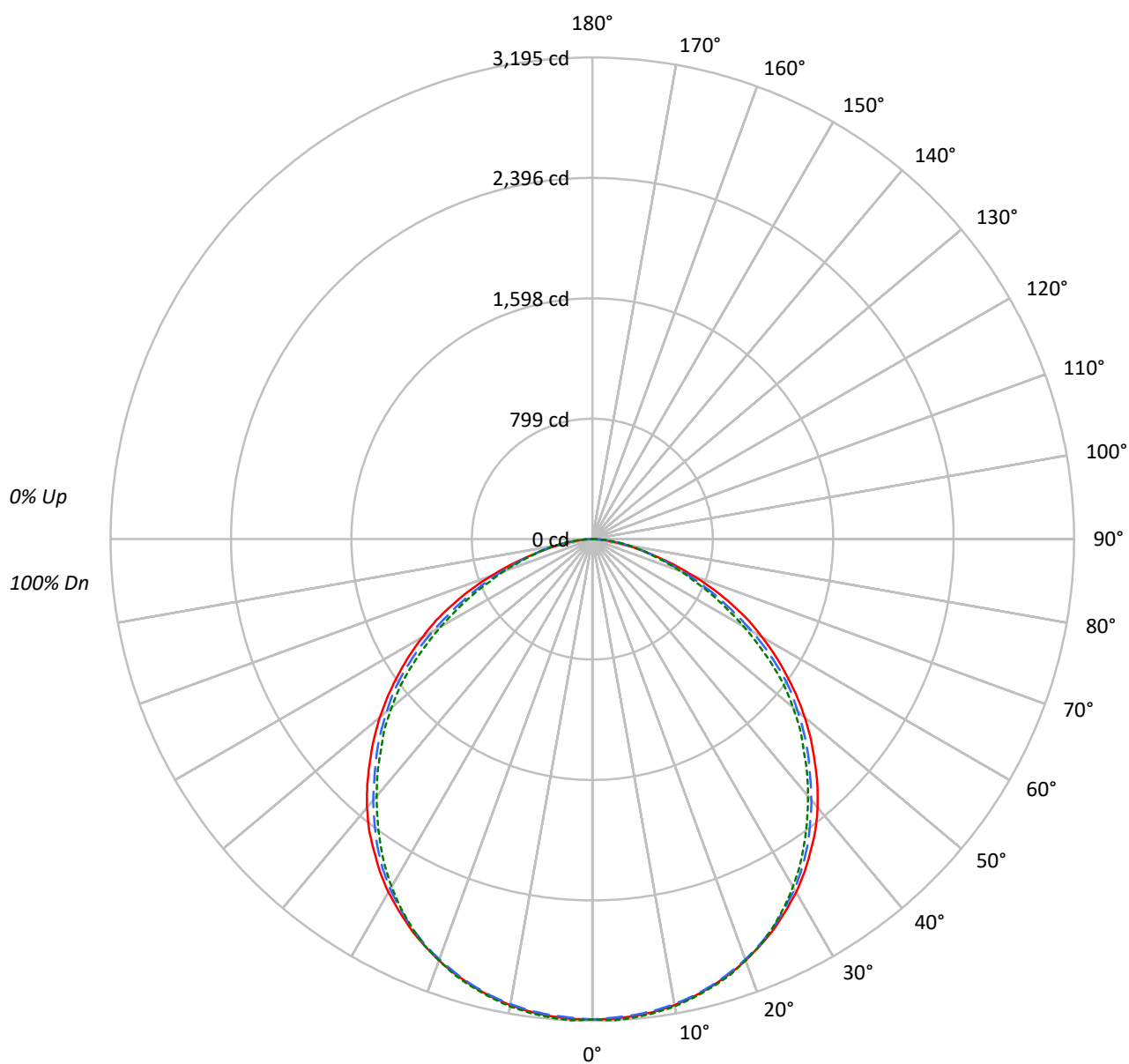
Lumens per Lamp: N/A
Luminaire Lumens: 8454.5 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4286	4286	4286
5°	4290	4281	4303
10°	4288	4279	4300
15°	4275	4269	4285
20°	4258	4248	4258
25°	4234	4216	4213
30°	4202	4165	4136
35°	4146	4083	4031
40°	4082	3971	3908
45°	3969	3852	3773
50°	3849	3724	3637
55°	3689	3564	3422
60°	3497	3291	3119
65°	3235	2939	2793
70°	2805	2558	2462
75°	2239	2190	2129
80°	1702	1901	1901
85°	1258	1623	1623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3969 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	3.6
10°-20°	866.6	10.2
20°-30°	1309.7	15.5
30°-40°	1555.1	18.4
40°-50°	1566.7	18.5
50°-60°	1354.3	16.0
60°-70°	925.6	10.9
70°-80°	456.4	5.4
80°-90°	118.0	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°	2478.4	29.3
0°-40°	4033.5	47.7
0°-60°	6954.5	82.3
0°-90°	8454.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8454.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3186	3186	3186	3186	3186	
5°	3176	3178	3170	3182	3186	302
15°	3069	3073	3064	3075	3076	866
25°	2852	2850	2840	2843	2838	1314
35°	2524	2515	2486	2464	2454	1580
45°	2086	2063	2024	2001	1983	1610
55°	1572	1568	1519	1474	1459	1406
65°	1016	980	923	883	877	1003
75°	431	427	421	421	410	469
85°	82	96	105	107	105	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3185.8	3185.8	3185.8	3185.8	3185.8
2.5°	3184.9	3185.8	3177.7	3191.8	3195.2
5°	3176.4	3177.7	3169.5	3182.4	3185.8
7.5°	3161.4	3163.5	3154.1	3166.9	3169.5
10°	3138.6	3139.9	3131.8	3144.6	3147.2
12.5°	3108.2	3109.0	3102.2	3113.7	3113.7
15°	3069.1	3072.6	3064.4	3075.1	3076.0
17.5°	3025.4	3026.7	3018.5	3030.1	3032.7
20°	2973.5	2973.5	2966.6	2976.0	2973.5
22.5°	2915.6	2915.6	2907.4	2912.1	2914.3
25°	2852.1	2849.5	2840.1	2842.6	2837.9
27.5°	2778.7	2778.7	2762.0	2762.0	2753.9
30°	2704.5	2698.5	2680.9	2670.2	2662.1
32.5°	2619.2	2611.0	2588.7	2569.8	2563.8
35°	2523.9	2515.4	2485.8	2463.5	2454.0
37.5°	2431.7	2412.8	2373.8	2351.5	2340.8
40°	2324.0	2300.5	2260.6	2229.7	2225.0
42.5°	2208.7	2189.8	2137.9	2115.1	2109.6
45°	2086.0	2063.2	2024.2	2000.6	1983.0
47.5°	1965.4	1948.7	1904.1	1875.8	1869.8
50°	1838.9	1824.7	1778.9	1748.4	1737.7
52.5°	1708.1	1698.6	1659.6	1620.6	1607.7
55°	1572.5	1567.8	1519.3	1474.3	1458.9
57.5°	1439.1	1433.1	1372.6	1320.7	1306.6
60°	1299.7	1282.1	1222.9	1174.5	1159.0
62.5°	1167.6	1129.9	1065.9	1028.2	1010.6
65°	1016.2	979.7	923.1	882.8	877.2
67.5°	867.8	824.0	780.3	755.4	736.5
70°	712.9	683.3	650.3	629.3	625.8
72.5°	568.8	547.8	531.0	518.2	507.4
75°	430.7	427.2	421.2	421.2	409.6
77.5°	316.6	324.7	329.4	328.1	330.7
80°	219.6	235.9	245.4	246.6	245.4
82.5°	139.4	158.3	173.7	175.9	178.4
85°	81.5	95.7	105.1	107.2	105.1
87.5°	36.5	45.9	48.5	50.6	48.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)