

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: P1050495

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-L840-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

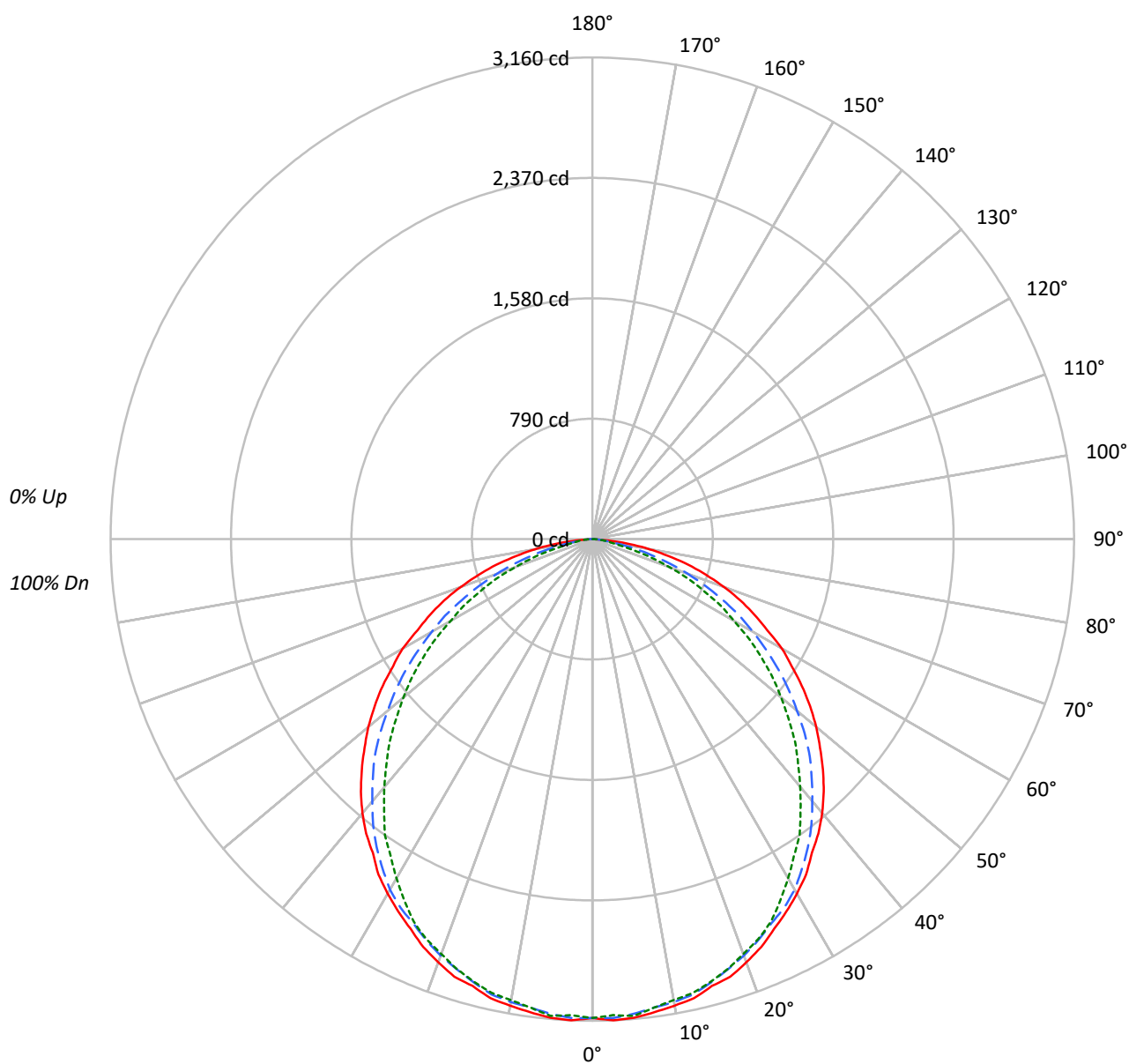
Lumens per Lamp: N/A
Luminaire Lumens: 8367.4 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4227	4227	4227
5°	4258	4222	4240
10°	4246	4213	4195
15°	4227	4193	4185
20°	4230	4163	4147
25°	4189	4127	4113
30°	4171	4125	3991
35°	4124	4050	3894
40°	4121	3943	3726
45°	4069	3841	3578
50°	4014	3670	3384
55°	3937	3498	3178
60°	3867	3272	2885
65°	3735	3002	2579
70°	3614	2613	2105
75°	3395	2062	1449
80°	2943	1247	870
85°	1964	895	838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	3.6
10°-20°	852.1	10.2
20°-30°	1287.0	15.4
30°-40°	1530.3	18.3
40°-50°	1552.0	18.5
50°-60°	1347.7	16.1
60°-70°	956.7	11.4
70°-80°	457.2	5.5
80°-90°	86.7	1.0
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°	2436.9	29.1
0°-40°	3967.1	47.4
0°-60°	6866.8	82.1
0°-90°	8367.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8367.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3141	3141	3141	3141	3141	
5°	3152	3141	3126	3134	3139	299
15°	3035	3042	3010	3007	3005	860
25°	2821	2818	2780	2791	2771	1303
35°	2511	2507	2466	2382	2370	1578
45°	2138	2120	2019	1912	1880	1650
55°	1678	1628	1491	1403	1355	1500
65°	1173	1085	943	842	810	1162
75°	653	533	397	314	279	685
85°	127	67	58	56	54	160
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3141.3	3141.3	3141.3	3141.3	3141.3
2.5°	3160.0	3148.8	3145.0	3158.1	3126.3
5°	3152.5	3141.3	3126.3	3133.8	3139.4
7.5°	3130.1	3120.7	3100.1	3117.0	3100.1
10°	3107.6	3098.3	3083.3	3088.9	3070.2
12.5°	3085.2	3062.7	3059.0	3062.7	3049.6
15°	3034.6	3042.1	3010.3	3006.6	3004.7
17.5°	3010.3	2991.6	2957.9	2959.8	2956.1
20°	2954.2	2931.7	2907.4	2903.7	2896.2
22.5°	2896.2	2870.0	2847.6	2858.8	2841.9
25°	2821.4	2817.6	2780.2	2791.4	2770.8
27.5°	2755.9	2742.8	2725.9	2701.6	2671.7
30°	2684.8	2671.7	2654.8	2591.2	2568.8
32.5°	2609.9	2595.0	2561.3	2486.5	2462.1
35°	2510.8	2507.0	2465.9	2381.7	2370.5
37.5°	2435.9	2394.8	2361.1	2275.0	2243.2
40°	2346.1	2323.7	2245.1	2162.8	2121.6
42.5°	2247.0	2220.8	2131.0	2043.1	1998.2
45°	2138.5	2119.8	2018.7	1912.1	1880.3
47.5°	2026.2	2009.4	1889.6	1786.7	1745.6
50°	1917.7	1897.1	1753.1	1653.9	1616.5
52.5°	1799.8	1766.2	1624.0	1526.7	1491.1
55°	1678.2	1627.7	1491.1	1403.2	1354.6
57.5°	1549.1	1502.4	1350.8	1259.1	1219.8
60°	1436.9	1371.4	1216.1	1122.6	1072.0
62.5°	1292.8	1236.7	1088.9	978.5	954.2
65°	1173.1	1085.1	942.9	841.9	810.1
67.5°	1051.5	948.6	804.5	701.6	684.8
70°	918.6	812.0	664.2	563.1	535.1
72.5°	783.9	679.1	535.1	428.4	411.6
75°	653.0	533.2	396.6	314.3	278.8
77.5°	510.8	402.2	278.8	192.7	170.3
80°	379.8	271.3	160.9	114.1	112.3
82.5°	248.8	157.2	86.1	87.9	84.2
85°	127.2	67.4	58.0	56.1	54.3
87.5°	24.3	26.2	28.1	28.1	28.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)