

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: P1051034

Luminaire Tested: 24PTR-80-PW1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051034
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-L840-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

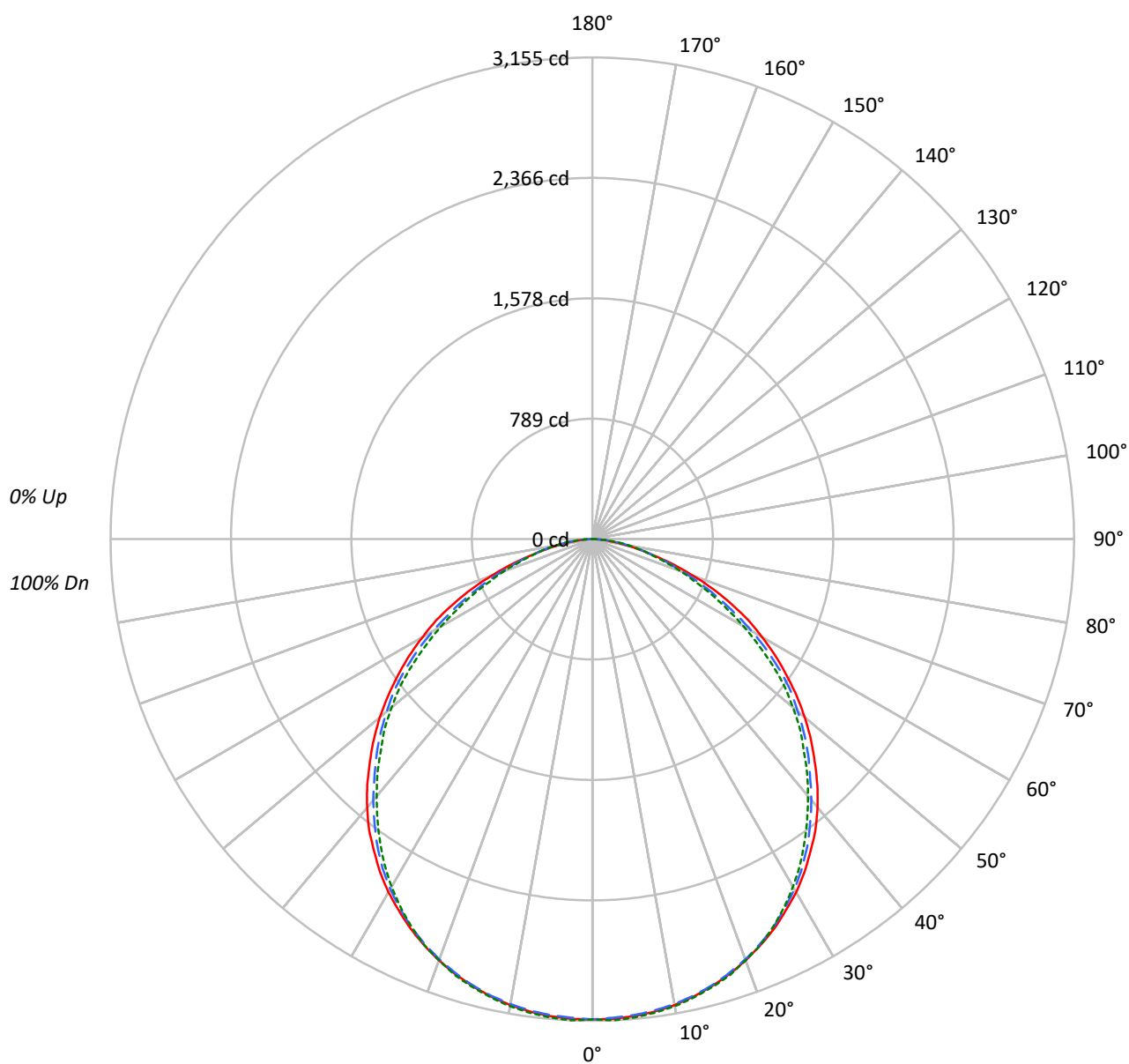
Lumens per Lamp: N/A
Luminaire Lumens: 8347.8 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4232	4232	4232
5°	4236	4227	4249
10°	4234	4225	4246
15°	4221	4215	4231
20°	4204	4194	4204
25°	4181	4163	4160
30°	4149	4113	4084
35°	4093	4031	3980
40°	4030	3920	3859
45°	3919	3803	3726
50°	3801	3677	3591
55°	3642	3519	3379
60°	3453	3249	3080
65°	3195	2902	2757
70°	2769	2526	2431
75°	2210	2162	2103
80°	1681	1877	1877
85°	1243	1602	1602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	3.6
10°-20°	855.6	10.2
20°-30°	1293.1	15.5
30°-40°	1535.5	18.4
40°-50°	1547.0	18.5
50°-60°	1337.2	16.0
60°-70°	913.9	10.9
70°-80°	450.6	5.4
80°-90°	116.6	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°	2447.1	29.3
0°-40°	3982.6	47.7
0°-60°	6866.7	82.3
0°-90°	8347.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8347.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3146	3146	3146	3146	3146	
5°	3136	3138	3130	3142	3146	298
15°	3030	3034	3026	3036	3037	855
25°	2816	2814	2804	2807	2802	1297
35°	2492	2484	2454	2432	2423	1560
45°	2060	2037	1999	1975	1958	1590
55°	1553	1548	1500	1456	1440	1388
65°	1003	967	911	872	866	991
75°	425	422	416	416	404	464
85°	80	94	104	106	104	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3145.6	3145.6	3145.6	3145.6	3145.6
2.5°	3144.8	3145.6	3137.6	3151.5	3154.9
5°	3136.3	3137.6	3129.5	3142.2	3145.6
7.5°	3121.5	3123.6	3114.3	3127.0	3129.5
10°	3099.0	3100.3	3092.2	3104.9	3107.5
12.5°	3068.9	3069.8	3063.0	3074.4	3074.4
15°	3030.4	3033.8	3025.7	3036.3	3037.2
17.5°	2987.2	2988.5	2980.4	2991.9	2994.4
20°	2935.9	2935.9	2929.2	2938.5	2935.9
22.5°	2878.8	2878.8	2870.7	2875.4	2877.5
25°	2816.1	2813.5	2804.2	2806.8	2802.1
27.5°	2743.7	2743.7	2727.1	2727.1	2719.1
30°	2670.4	2664.5	2647.1	2636.5	2628.5
32.5°	2586.1	2578.1	2556.0	2537.4	2531.5
35°	2492.1	2483.6	2454.4	2432.4	2423.0
37.5°	2401.0	2382.4	2343.8	2321.8	2311.2
40°	2294.7	2271.4	2232.0	2201.5	2196.9
42.5°	2180.8	2162.1	2110.9	2088.5	2082.9
45°	2059.7	2037.2	1998.7	1975.4	1958.0
47.5°	1940.6	1924.1	1880.1	1852.1	1846.2
50°	1815.7	1801.7	1756.4	1726.3	1715.7
52.5°	1686.5	1677.2	1638.7	1600.1	1587.4
55°	1552.7	1548.0	1500.2	1455.7	1440.4
57.5°	1421.0	1415.0	1355.3	1304.1	1290.1
60°	1283.3	1265.9	1207.5	1159.6	1144.4
62.5°	1152.9	1115.6	1052.5	1015.2	997.8
65°	1003.4	967.4	911.4	871.6	866.1
67.5°	856.8	813.6	770.4	745.8	727.2
70°	703.9	674.7	642.1	621.3	617.9
72.5°	561.6	540.9	524.3	511.6	501.0
75°	425.2	421.8	415.9	415.9	404.5
77.5°	312.6	320.6	325.3	324.0	326.5
80°	216.9	232.9	242.3	243.5	242.3
82.5°	137.6	156.3	171.5	173.6	176.2
85°	80.5	94.4	103.8	105.9	103.8
87.5°	36.0	45.3	47.9	50.0	47.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)