

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: P1050572

Luminaire Tested: 24PTR-80-PB1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PB1-L840-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

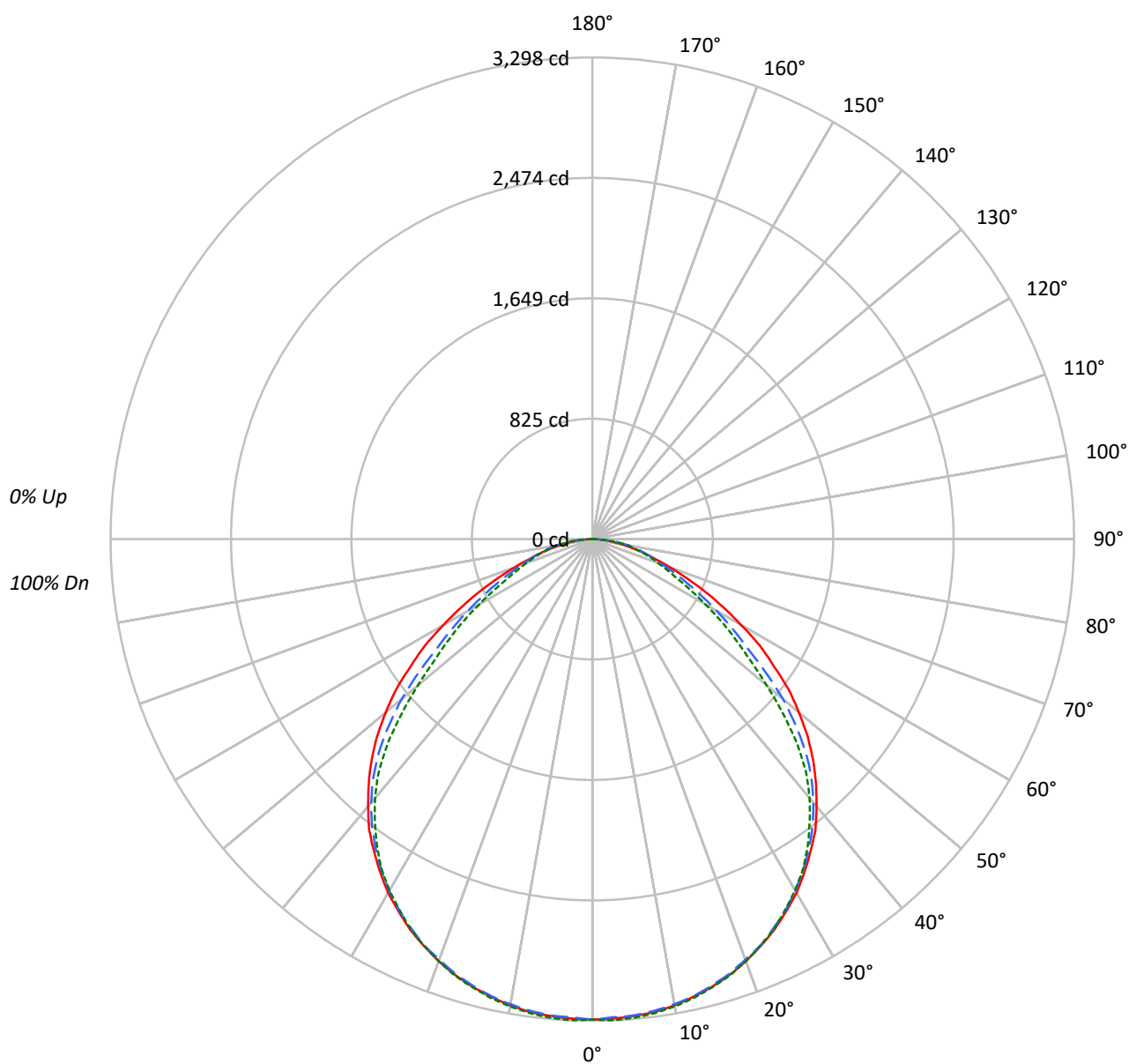
Lumens per Lamp: N/A
Luminaire Lumens: 8203.3 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050572

CATALOG NUMBER: 24PTR-80-PB1-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050572

CATALOG NUMBER: 24PTR-80-PB1-L840-UNV-STD-W

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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4426	4426	4426
5°	4427	4422	4443
10°	4429	4417	4439
15°	4419	4408	4425
20°	4403	4386	4403
25°	4379	4361	4373
30°	4344	4319	4313
35°	4280	4247	4221
40°	4193	4137	4065
45°	4065	3934	3773
50°	3863	3566	3261
55°	3560	3028	2809
60°	3169	2647	2406
65°	2719	2294	2049
70°	2244	2022	1878
75°	1893	1934	1831
80°	1600	1975	1883
85°	1252	2001	1751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4065 cd/sqm

TEST NUMBER: P1050572

CATALOG NUMBER: 24PTR-80-PB1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.9	3.8
10°-20°	895.1	10.9
20°-30°	1355.8	16.5
30°-40°	1615.6	19.7
40°-50°	1579.8	19.3
50°-60°	1195.0	14.6
60°-70°	734.2	8.9
70°-80°	391.1	4.8
80°-90°	124.8	1.5
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°	2562.8	31.2
0°-40°	4178.4	50.9
0°-60°	6953.2	84.8
0°-90°	8203.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8203.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3290	3290	3290	3290	3290	
5°	3278	3282	3274	3286	3290	312
15°	3173	3176	3164	3176	3176	895
25°	2950	2946	2938	2942	2946	1359
35°	2606	2602	2586	2574	2570	1630
45°	2136	2124	2068	1999	1983	1643
55°	1518	1441	1291	1218	1198	1359
65°	854	785	720	664	644	850
75°	364	368	372	360	352	390
85°	81	105	130	122	113	97
90°	0	0	0	0	0	

TEST NUMBER: P1050572

CATALOG NUMBER: 24PTR-80-PB1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3289.8	3289.8	3289.8	3289.8	3289.8
2.5°	3286.0	3289.8	3277.5	3294.1	3297.9
5°	3277.5	3281.7	3273.7	3286.0	3289.8
7.5°	3265.6	3265.6	3257.5	3269.4	3273.7
10°	3241.4	3241.4	3233.3	3245.2	3249.4
12.5°	3209.1	3209.1	3204.8	3212.9	3217.2
15°	3172.6	3176.4	3164.5	3176.4	3176.4
17.5°	3127.9	3124.1	3119.9	3127.9	3132.2
20°	3075.3	3075.3	3063.4	3071.4	3075.3
22.5°	3014.5	3014.5	3010.7	3014.5	3010.7
25°	2949.9	2945.7	2937.6	2941.9	2945.7
27.5°	2873.1	2873.1	2865.0	2865.0	2860.7
30°	2796.2	2791.9	2780.0	2771.9	2775.8
32.5°	2703.1	2698.9	2687.0	2678.9	2682.7
35°	2605.8	2602.0	2585.9	2573.6	2569.7
37.5°	2509.0	2496.7	2476.3	2460.1	2444.0
40°	2387.5	2375.2	2355.2	2318.7	2314.4
42.5°	2266.0	2254.1	2221.4	2177.2	2164.9
45°	2136.4	2124.5	2067.6	1998.8	1982.6
47.5°	1998.8	1978.8	1889.6	1804.6	1772.3
50°	1845.4	1808.9	1703.5	1594.3	1557.8
52.5°	1695.5	1630.9	1493.2	1396.0	1359.8
55°	1517.5	1440.6	1291.0	1218.0	1197.6
57.5°	1359.8	1254.5	1133.0	1060.4	1044.2
60°	1177.6	1080.3	983.5	918.5	894.2
62.5°	1011.5	926.5	845.8	788.9	760.9
65°	853.9	785.1	720.5	663.6	643.6
67.5°	700.1	663.6	610.9	566.7	554.4
70°	570.5	550.1	514.0	493.6	477.5
72.5°	453.3	461.4	437.1	429.1	416.7
75°	364.1	368.3	372.1	360.2	352.2
77.5°	275.3	295.2	311.4	303.3	295.2
80°	206.5	226.4	254.9	243.0	243.0
82.5°	141.5	166.1	190.3	182.2	178.0
85°	81.1	105.4	129.6	121.5	113.4
87.5°	32.3	52.7	56.5	56.5	52.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)