

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: P1050473

Luminaire Tested: 24PTR-80-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050473
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-L830-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

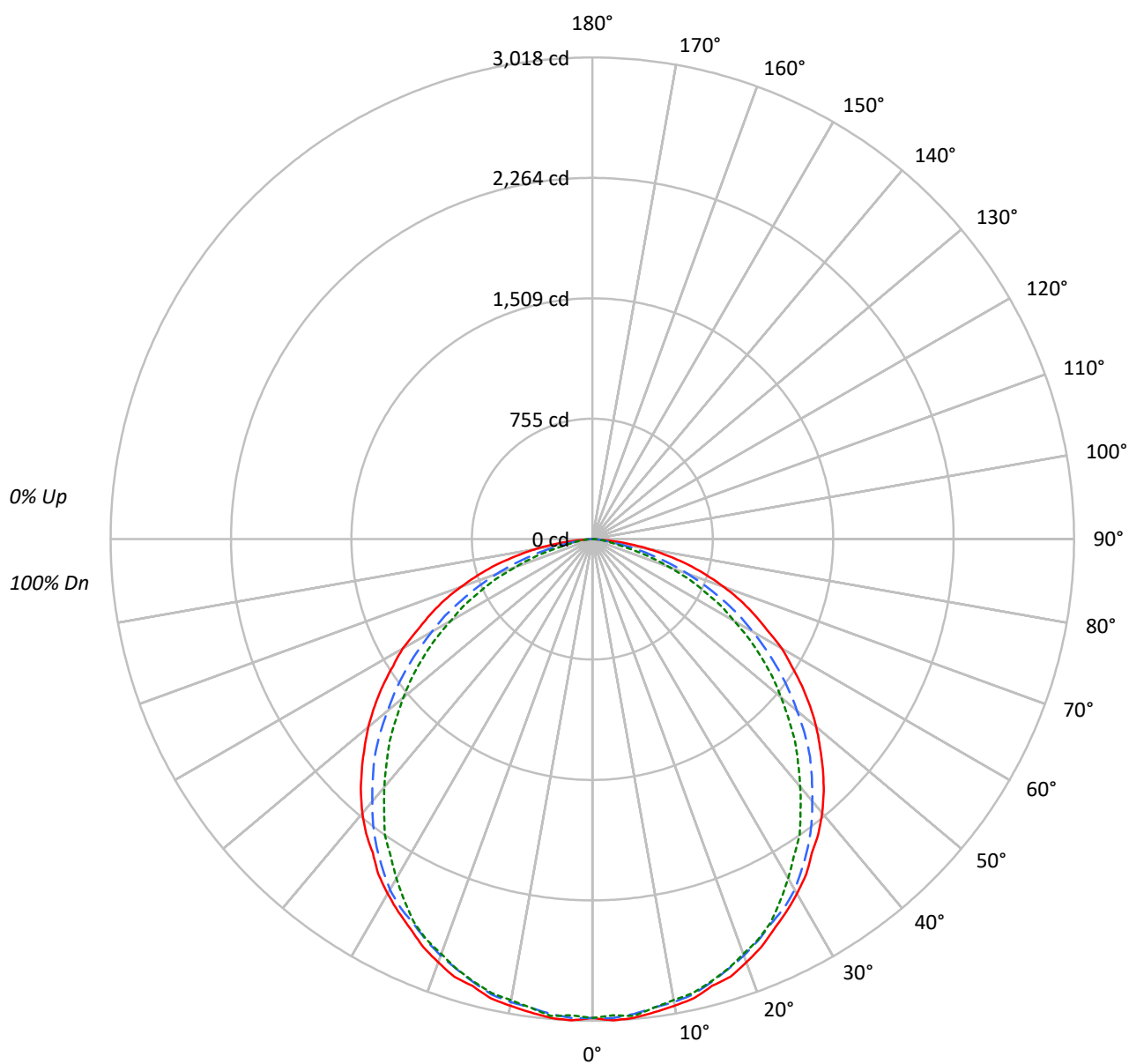
Lumens per Lamp: N/A
Luminaire Lumens: 7992.4 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050473

CATALOG NUMBER: 24PTR-80-L830-UNV-STD-W

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°	4037	4037	4037
5°	4067	4033	4050
10°	4055	4024	4007
15°	4038	4005	3998
20°	4040	3976	3961
25°	4001	3942	3929
30°	3984	3940	3812
35°	3939	3869	3719
40°	3936	3767	3560
45°	3887	3669	3417
50°	3834	3505	3232
55°	3760	3341	3035
60°	3693	3126	2756
65°	3567	2868	2464
70°	3452	2496	2011
75°	3242	1970	1384
80°	2811	1191	831
85°	1876	855	800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3887 cd/sqm

TEST NUMBER: P1050473

CATALOG NUMBER: 24PTR-80-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	3.6
10°-20°	813.9	10.2
20°-30°	1229.4	15.4
30°-40°	1461.7	18.3
40°-50°	1482.4	18.5
50°-60°	1287.3	16.1
60°-70°	913.8	11.4
70°-80°	436.7	5.5
80°-90°	82.8	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°	2327.7	29.1
0°-40°	3789.4	47.4
0°-60°	6559.1	82.1
0°-90°	7992.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7992.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3000	3000	3000	3000	3000	
5°	3011	3000	2986	2993	2999	286
15°	2899	2906	2875	2872	2870	821
25°	2695	2691	2656	2666	2647	1245
35°	2398	2395	2355	2275	2264	1507
45°	2043	2025	1928	1826	1796	1576
55°	1603	1555	1424	1340	1294	1432
65°	1120	1036	901	804	774	1110
75°	624	509	379	300	266	654
85°	122	64	55	54	52	153
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3000.5	3000.5	3000.5	3000.5	3000.5
2.5°	3018.4	3007.7	3004.1	3016.6	2986.2
5°	3011.2	3000.5	2986.2	2993.4	2998.7
7.5°	2989.8	2980.9	2961.2	2977.3	2961.2
10°	2968.3	2959.4	2945.1	2950.5	2932.6
12.5°	2946.9	2925.5	2921.9	2925.5	2912.9
15°	2898.6	2905.8	2875.4	2871.8	2870.1
17.5°	2875.4	2857.5	2825.4	2827.2	2823.6
20°	2821.8	2800.4	2777.1	2773.6	2766.4
22.5°	2766.4	2741.4	2719.9	2730.7	2714.6
25°	2694.9	2691.3	2655.6	2666.3	2646.7
27.5°	2632.4	2619.9	2603.8	2580.5	2552.0
30°	2564.5	2552.0	2535.9	2475.1	2453.7
32.5°	2493.0	2478.7	2446.5	2375.0	2351.8
35°	2398.3	2394.7	2355.4	2275.0	2264.2
37.5°	2326.8	2287.5	2255.3	2173.1	2142.7
40°	2241.0	2219.6	2144.5	2065.9	2026.6
42.5°	2146.3	2121.3	2035.5	1951.5	1908.6
45°	2042.6	2024.8	1928.3	1826.4	1796.0
47.5°	1935.4	1919.3	1805.0	1706.7	1667.3
50°	1831.8	1812.1	1674.5	1579.8	1544.0
52.5°	1719.2	1687.0	1551.2	1458.3	1424.3
55°	1603.0	1554.8	1424.3	1340.3	1293.8
57.5°	1479.7	1435.0	1290.3	1202.7	1165.2
60°	1372.5	1309.9	1161.6	1072.2	1024.0
62.5°	1234.9	1181.3	1040.1	934.6	911.4
65°	1120.5	1036.5	900.7	804.2	773.8
67.5°	1004.3	906.1	768.4	670.2	654.1
70°	877.5	775.6	634.4	537.9	511.1
72.5°	748.8	648.7	511.1	409.2	393.2
75°	623.7	509.3	378.9	300.2	266.3
77.5°	487.9	384.2	266.3	184.1	162.6
80°	362.8	259.1	153.7	109.0	107.2
82.5°	237.7	150.1	82.2	84.0	80.4
85°	121.5	64.3	55.4	53.6	51.8
87.5°	23.2	25.0	26.8	26.8	26.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)