

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: P1050860

Luminaire Tested: 24PTR-90-PP3-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PP3-L830-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

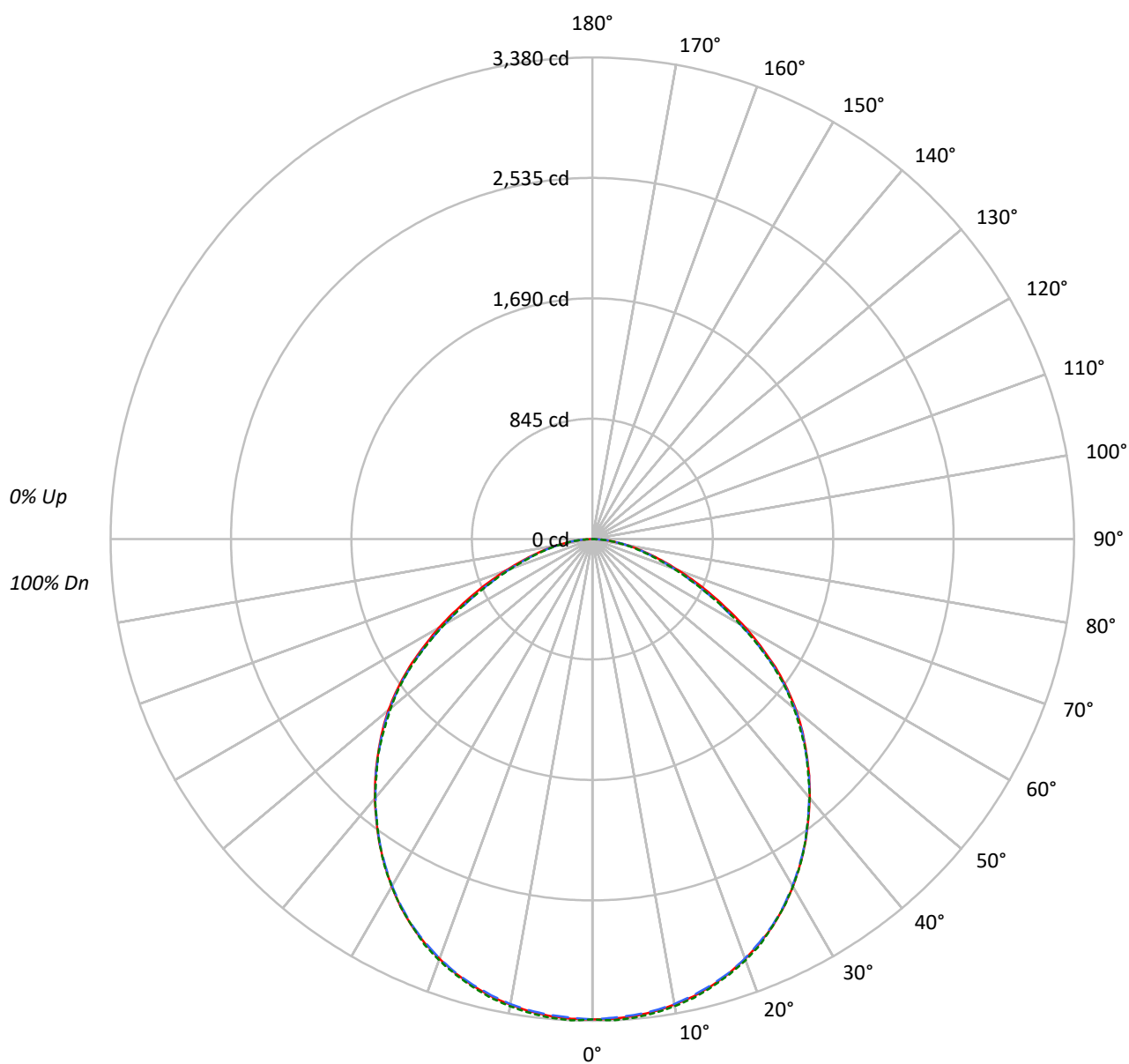
Lumens per Lamp: N/A
Luminaire Lumens: 8707.7 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76
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: P1050860

CATALOG NUMBER: 24PTR-90-PP3-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	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	42	42	40
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4535	4535	4535
5°	4539	4528	4553
10°	4532	4526	4547
15°	4517	4509	4529
20°	4488	4484	4503
25°	4448	4440	4446
30°	4373	4364	4373
35°	4278	4272	4276
40°	4168	4155	4166
45°	4043	4031	4036
50°	3908	3889	3861
55°	3679	3636	3624
60°	3338	3226	3232
65°	2932	2785	2781
70°	2535	2420	2392
75°	2193	2112	2066
80°	1943	1915	1829
85°	1606	1661	1564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4057 cd/sqm

TEST NUMBER: P1050860

CATALOG NUMBER: 24PTR-90-PP3-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.6	3.7
10°-20°	915.6	10.5
20°-30°	1378.5	15.8
30°-40°	1627.0	18.7
40°-50°	1636.3	18.8
50°-60°	1381.4	15.9
60°-70°	887.2	10.2
70°-80°	441.2	5.1
80°-90°	120.9	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°	2613.7	30.0
0°-40°	4240.7	48.7
0°-60°	7258.4	83.4
0°-90°	8707.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8707.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3370	3370	3370	3370	3370	
5°	3360	3361	3353	3369	3371	319
15°	3243	3244	3237	3252	3252	915
25°	2996	2997	2991	2997	2995	1378
35°	2604	2606	2601	2603	2603	1628
45°	2125	2132	2118	2121	2121	1640
55°	1568	1567	1550	1544	1545	1395
65°	921	908	875	866	873	918
75°	422	420	406	402	397	456
85°	104	108	108	101	101	122
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-90-PP3-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3370.2	3370.2	3370.2	3370.2	3370.2
2.5°	3368.8	3370.2	3361.3	3377.3	3379.9
5°	3360.4	3361.3	3352.8	3368.8	3371.1
7.5°	3343.1	3344.4	3336.8	3351.5	3354.2
10°	3317.3	3321.3	3312.4	3326.2	3328.4
12.5°	3285.7	3287.0	3278.2	3294.2	3296.8
15°	3243.0	3243.9	3236.8	3251.5	3251.5
17.5°	3193.7	3195.0	3190.1	3202.6	3201.3
20°	3134.1	3137.7	3131.5	3139.9	3144.8
22.5°	3069.2	3070.6	3063.0	3074.1	3079.0
25°	2995.9	2996.8	2991.0	2996.8	2994.6
27.5°	2910.1	2912.3	2903.9	2910.1	2911.4
30°	2814.5	2820.8	2808.8	2813.7	2814.5
32.5°	2711.9	2715.4	2707.0	2708.3	2714.5
35°	2604.3	2605.6	2600.7	2603.0	2603.0
37.5°	2488.3	2493.2	2485.6	2489.2	2484.3
40°	2373.2	2368.3	2365.6	2368.3	2371.8
42.5°	2251.8	2253.2	2249.6	2246.9	2241.1
45°	2124.7	2132.2	2118.5	2121.1	2121.1
47.5°	2000.2	2001.1	1994.0	1986.5	1981.6
50°	1866.9	1866.9	1858.0	1852.2	1844.7
52.5°	1721.1	1718.9	1709.1	1702.9	1706.4
55°	1568.2	1566.8	1550.0	1543.7	1545.1
57.5°	1400.6	1403.3	1377.5	1371.3	1371.3
60°	1240.6	1228.1	1198.8	1190.4	1201.0
62.5°	1072.6	1057.9	1026.3	1026.3	1034.8
65°	921.0	907.7	874.8	865.9	873.4
67.5°	779.2	766.8	736.5	731.6	733.9
70°	644.5	633.9	615.2	604.1	608.1
72.5°	528.5	518.7	506.3	497.8	492.9
75°	421.8	419.6	406.3	402.3	397.4
77.5°	333.8	332.9	321.8	316.9	312.0
80°	250.7	249.4	247.1	239.6	236.0
82.5°	178.7	178.7	177.4	171.1	167.6
85°	104.0	107.6	107.6	101.3	101.3
87.5°	41.8	44.0	41.8	41.8	40.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)