

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: P1050662

Luminaire Tested: 24PTR-90-PC3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PC3-L850-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

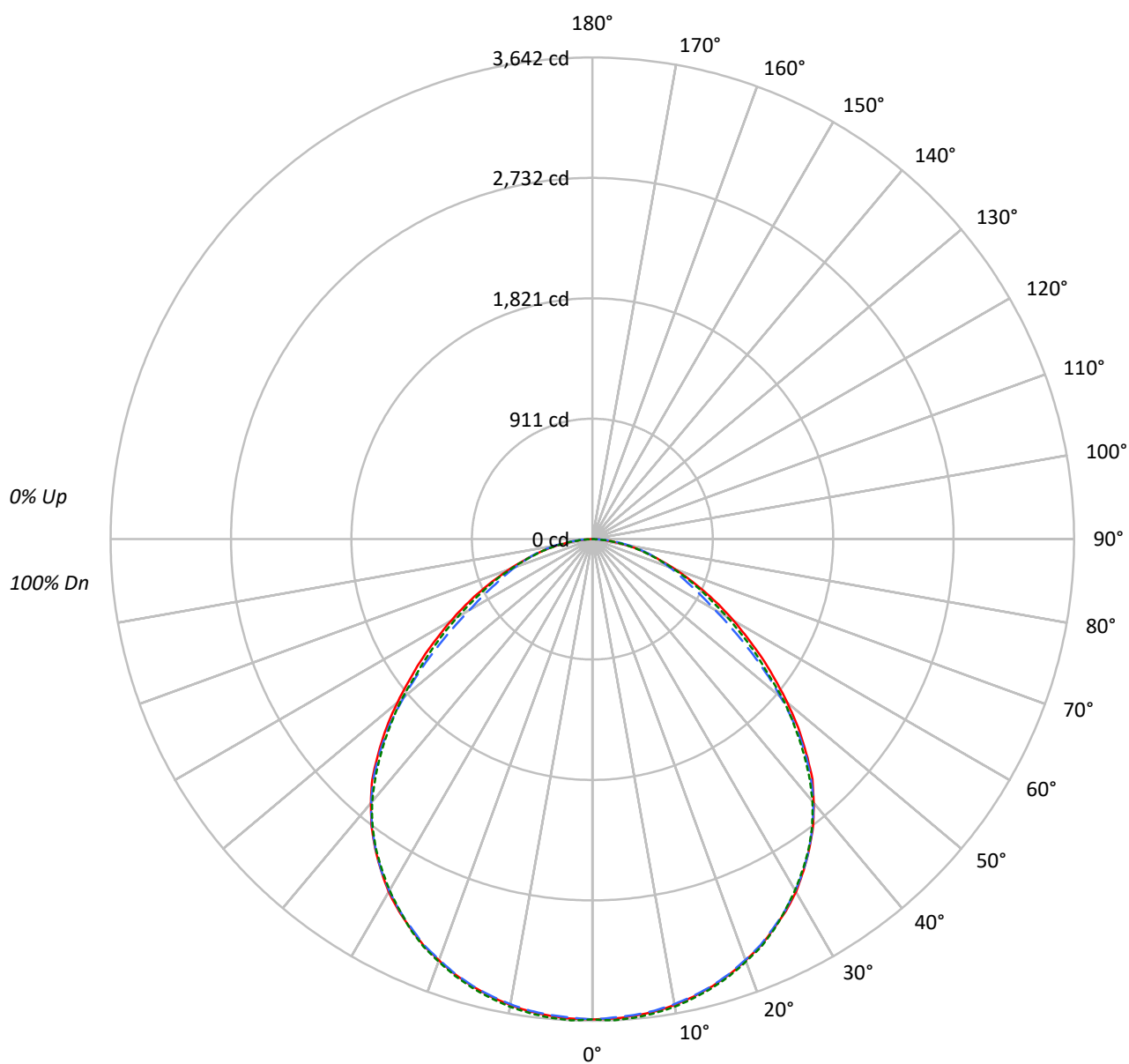
Lumens per Lamp: N/A
Luminaire Lumens: 9155.8 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4886	4886	4886
5°	4888	4879	4907
10°	4888	4879	4905
15°	4876	4871	4892
20°	4854	4846	4867
25°	4821	4813	4832
30°	4785	4769	4761
35°	4698	4694	4685
40°	4574	4567	4547
45°	4350	4318	4274
50°	4027	3891	3935
55°	3674	3377	3528
60°	3313	2880	3160
65°	2961	2577	2841
70°	2627	2438	2555
75°	2323	2363	2277
80°	2004	2256	1993
85°	1501	1785	1501

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	3.8
10°-20°	988.7	10.8
20°-30°	1496.9	16.3
30°-40°	1784.7	19.5
40°-50°	1743.8	19.0
50°-60°	1333.4	14.6
60°-70°	856.1	9.4
70°-80°	476.3	5.2
80°-90°	131.5	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°	2830.0	30.9
0°-40°	4614.7	50.4
0°-60°	7691.9	84.0
0°-90°	9155.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9155.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3632	3632	3632	3632	3632	
5°	3619	3621	3612	3629	3633	344
15°	3500	3503	3497	3508	3512	988
25°	3248	3251	3242	3253	3255	1498
35°	2860	2863	2858	2856	2852	1787
45°	2286	2291	2269	2264	2246	1759
55°	1566	1512	1439	1457	1504	1400
65°	930	858	809	836	892	928
75°	447	451	454	448	438	478
85°	97	114	116	112	97	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3631.6	3631.6	3631.6	3631.6	3631.6
2.5°	3629.3	3630.7	3621.3	3636.8	3642.0
5°	3618.9	3621.3	3612.3	3629.3	3633.1
7.5°	3603.3	3605.7	3596.7	3613.7	3615.1
10°	3577.4	3578.8	3570.8	3587.7	3590.1
12.5°	3542.4	3546.2	3537.3	3552.8	3553.8
15°	3500.4	3503.3	3496.7	3508.5	3512.2
17.5°	3451.4	3452.8	3446.2	3458.9	3460.3
20°	3390.0	3390.0	3384.8	3399.4	3399.4
22.5°	3327.7	3323.9	3322.5	3327.7	3335.7
25°	3247.5	3251.3	3242.3	3252.7	3255.0
27.5°	3169.6	3169.6	3161.6	3166.8	3160.2
30°	3079.9	3074.7	3069.6	3070.5	3064.4
32.5°	2971.9	2971.9	2969.5	2969.5	2961.5
35°	2860.5	2862.8	2857.6	2856.2	2852.5
37.5°	2740.6	2744.9	2735.4	2733.1	2730.2
40°	2604.2	2604.2	2600.4	2595.2	2588.6
42.5°	2462.6	2462.6	2446.1	2432.9	2423.9
45°	2286.1	2291.3	2269.1	2263.9	2246.0
47.5°	2110.6	2106.8	2077.0	2073.3	2062.9
50°	1923.7	1901.5	1859.0	1870.3	1879.8
52.5°	1736.8	1709.4	1647.1	1659.8	1675.4
55°	1566.4	1512.1	1439.4	1457.4	1504.1
57.5°	1388.5	1315.8	1243.1	1277.1	1335.1
60°	1231.3	1149.7	1070.4	1106.7	1174.2
62.5°	1080.8	993.9	930.2	965.1	1022.2
65°	930.2	858.5	809.4	836.3	892.5
67.5°	792.4	744.3	710.8	723.5	768.8
70°	667.8	637.6	619.7	623.4	649.4
72.5°	549.3	541.8	535.2	535.2	537.5
75°	446.9	450.7	454.5	448.4	438.0
77.5°	352.1	364.8	374.3	361.0	348.3
80°	258.6	279.4	291.2	276.6	257.2
82.5°	176.5	200.1	203.9	194.9	172.7
85°	97.2	114.2	115.6	111.9	97.2
87.5°	36.3	42.9	46.7	42.9	37.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)