

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: P1050562

Luminaire Tested: 24PTR-100-PB1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050562
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-100-PB1-L835-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

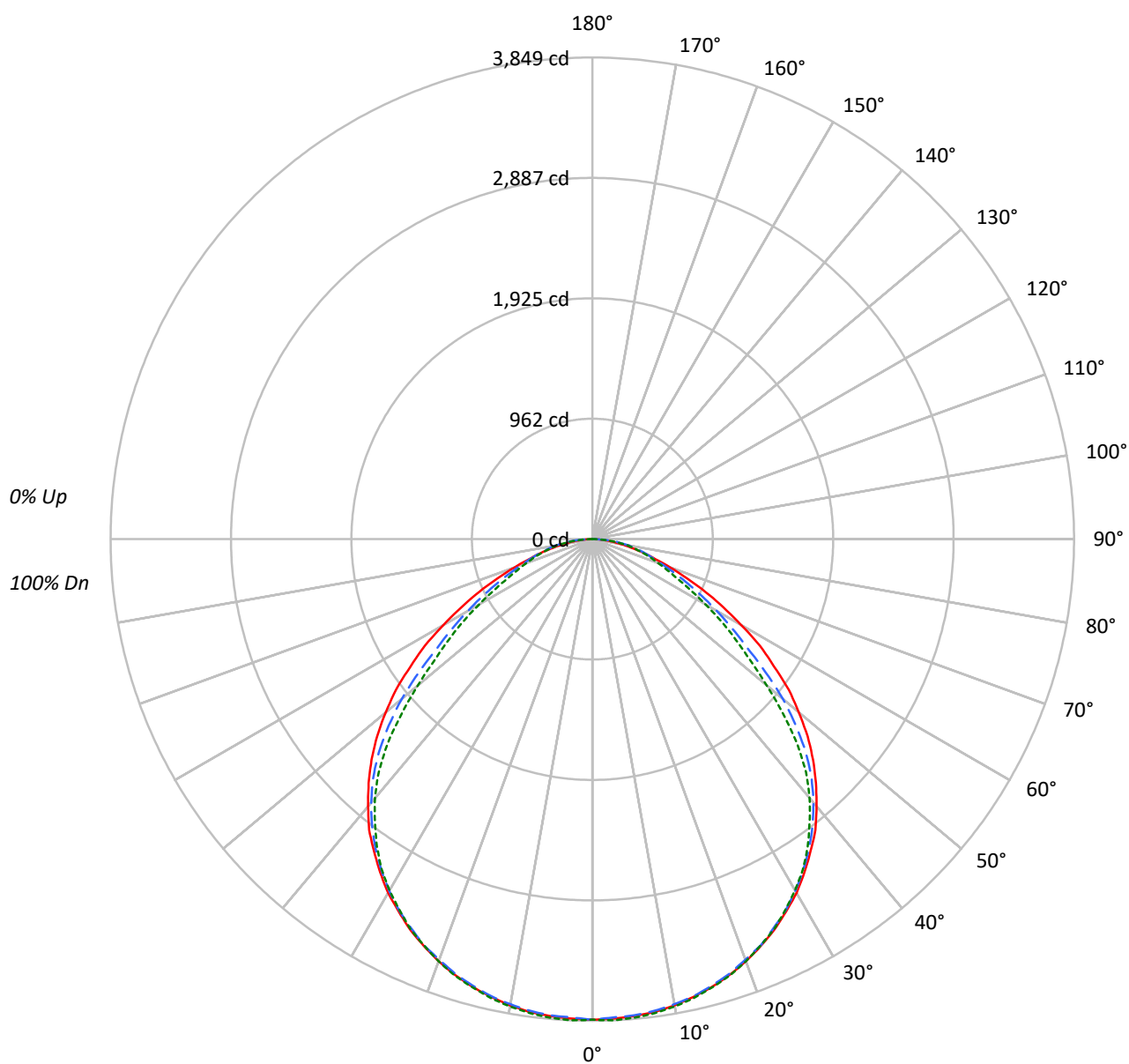
Lumens per Lamp: N/A
Luminaire Lumens: 9574.9 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5167	5167	5167
5°	5167	5161	5186
10°	5169	5156	5182
15°	5158	5145	5164
20°	5140	5120	5140
25°	5112	5090	5104
30°	5071	5041	5034
35°	4996	4958	4927
40°	4895	4828	4745
45°	4745	4592	4403
50°	4509	4162	3806
55°	4155	3535	3279
60°	3699	3089	2809
65°	3173	2677	2392
70°	2620	2360	2192
75°	2209	2258	2137
80°	1867	2305	2197
85°	1462	2334	2044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4745 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	3.8
10°-20°	1044.7	10.9
20°-30°	1582.5	16.5
30°-40°	1885.7	19.7
40°-50°	1844.0	19.3
50°-60°	1394.8	14.6
60°-70°	856.9	8.9
70°-80°	456.5	4.8
80°-90°	145.7	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°	2991.3	31.2
0°-40°	4877.0	50.9
0°-60°	8115.7	84.8
0°-90°	9574.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9574.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3840	3840	3840	3840	3840	
5°	3826	3830	3821	3835	3840	364
15°	3703	3708	3694	3708	3708	1045
25°	3443	3438	3429	3434	3438	1586
35°	3042	3037	3018	3004	2999	1902
45°	2494	2480	2413	2333	2314	1918
55°	1771	1681	1507	1422	1398	1586
65°	997	916	841	774	751	992
75°	425	430	434	420	411	456
85°	95	123	151	142	132	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3839.9	3839.9	3839.9	3839.9	3839.9
2.5°	3835.4	3839.9	3825.5	3844.8	3849.3
5°	3825.5	3830.4	3821.0	3835.4	3839.9
7.5°	3811.6	3811.6	3802.2	3816.1	3821.0
10°	3783.3	3783.3	3773.9	3787.8	3792.8
12.5°	3745.6	3745.6	3740.7	3750.1	3755.1
15°	3703.0	3707.5	3693.6	3707.5	3707.5
17.5°	3650.9	3646.5	3641.5	3650.9	3655.9
20°	3589.5	3589.5	3575.6	3585.0	3589.5
22.5°	3518.5	3518.5	3514.1	3518.5	3514.1
25°	3443.2	3438.2	3428.8	3433.8	3438.2
27.5°	3353.4	3353.4	3344.0	3344.0	3339.0
30°	3263.7	3258.7	3244.8	3235.4	3239.9
32.5°	3155.1	3150.1	3136.2	3126.8	3131.3
35°	3041.5	3037.1	3018.2	3003.9	2999.4
37.5°	2928.5	2914.1	2890.3	2871.5	2852.6
40°	2786.7	2772.3	2749.0	2706.3	2701.4
42.5°	2644.9	2631.0	2592.8	2541.2	2526.8
45°	2493.6	2479.7	2413.3	2333.0	2314.1
47.5°	2333.0	2309.7	2205.5	2106.4	2068.7
50°	2154.0	2111.3	1988.4	1860.9	1818.3
52.5°	1978.9	1903.6	1742.9	1629.4	1587.2
55°	1771.2	1681.4	1506.9	1421.6	1397.8
57.5°	1587.2	1464.2	1322.4	1237.6	1218.8
60°	1374.5	1260.9	1147.9	1072.0	1043.8
62.5°	1180.6	1081.4	987.2	920.8	888.1
65°	996.7	916.3	841.0	774.5	751.2
67.5°	817.2	774.5	713.0	661.5	647.1
70°	665.9	642.1	600.0	576.2	557.3
72.5°	529.1	538.5	510.2	500.8	486.4
75°	424.9	429.9	434.4	420.5	411.1
77.5°	321.3	344.6	363.5	354.0	344.6
80°	241.0	264.3	297.5	283.6	283.6
82.5°	165.1	193.9	222.1	212.7	207.8
85°	94.7	123.0	151.2	141.8	132.4
87.5°	37.7	61.5	65.9	65.9	61.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)