

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: P1050660

Luminaire Tested: 24PTR-80-PC3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050660
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-80-PC3-L850-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

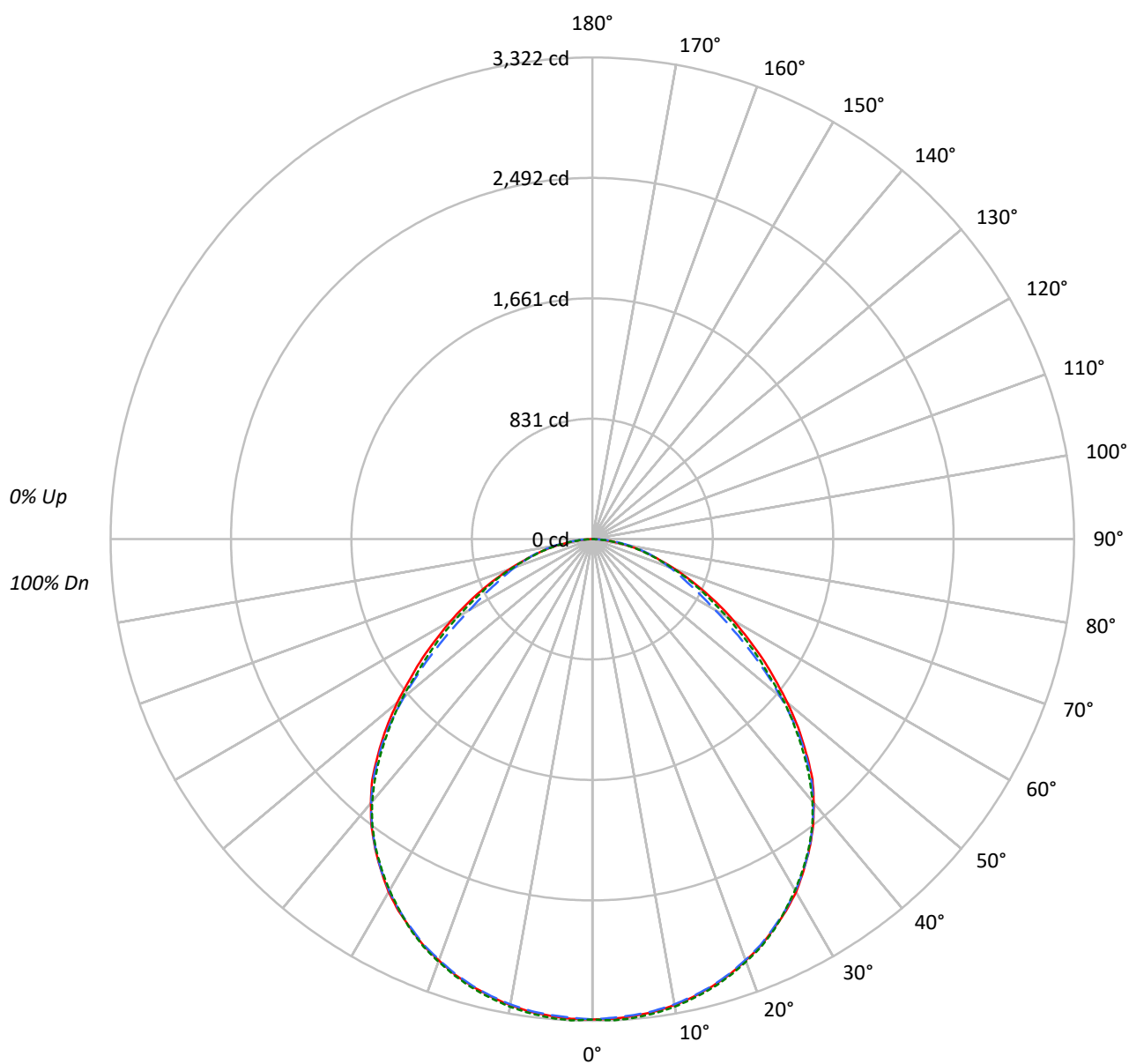
Lumens per Lamp: N/A
Luminaire Lumens: 8352.7 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	4458	4458	4458
5°	4459	4451	4477
10°	4459	4451	4475
15°	4448	4443	4463
20°	4428	4421	4440
25°	4398	4391	4408
30°	4365	4351	4343
35°	4286	4282	4274
40°	4173	4167	4148
45°	3968	3939	3899
50°	3673	3550	3590
55°	3352	3080	3219
60°	3023	2628	2883
65°	2702	2351	2592
70°	2397	2224	2330
75°	2119	2155	2077
80°	1828	2058	1818
85°	1369	1629	1369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3977 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.2	3.8
10°-20°	902.0	10.8
20°-30°	1365.6	16.3
30°-40°	1628.1	19.5
40°-50°	1590.8	19.0
50°-60°	1216.4	14.6
60°-70°	781.0	9.4
70°-80°	434.5	5.2
80°-90°	120.0	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°	2581.8	30.9
0°-40°	4209.9	50.4
0°-60°	7017.2	84.0
0°-90°	8352.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8352.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3313	3313	3313	3313	3313	
5°	3301	3304	3295	3311	3314	314
15°	3193	3196	3190	3201	3204	901
25°	2963	2966	2958	2967	2970	1366
35°	2610	2612	2607	2606	2602	1630
45°	2086	2090	2070	2065	2049	1605
55°	1429	1380	1313	1330	1372	1277
65°	849	783	738	763	814	846
75°	408	411	415	409	400	436
85°	89	104	106	102	89	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3313.1	3313.1	3313.1	3313.1	3313.1
2.5°	3310.9	3312.2	3303.6	3317.8	3322.5
5°	3301.4	3303.6	3295.4	3310.9	3314.4
7.5°	3287.2	3289.4	3281.2	3296.7	3298.0
10°	3263.6	3264.8	3257.5	3273.0	3275.2
12.5°	3231.7	3235.1	3227.0	3241.2	3242.0
15°	3193.4	3196.0	3189.9	3200.7	3204.1
17.5°	3148.6	3149.9	3143.9	3155.5	3156.8
20°	3092.6	3092.6	3087.9	3101.2	3101.2
22.5°	3035.8	3032.4	3031.1	3035.8	3043.1
25°	2962.6	2966.0	2957.9	2967.3	2969.5
27.5°	2891.6	2891.6	2884.2	2889.0	2883.0
30°	2809.8	2805.0	2800.3	2801.1	2795.5
32.5°	2711.2	2711.2	2709.0	2709.0	2701.7
35°	2609.6	2611.7	2607.0	2605.7	2602.2
37.5°	2500.2	2504.1	2495.5	2493.3	2490.7
40°	2375.8	2375.8	2372.3	2367.6	2361.6
42.5°	2246.6	2246.6	2231.5	2219.5	2211.3
45°	2085.6	2090.3	2070.1	2065.3	2049.0
47.5°	1925.4	1922.0	1894.8	1891.4	1881.9
50°	1754.9	1734.7	1695.9	1706.3	1714.9
52.5°	1584.4	1559.4	1502.6	1514.2	1528.4
55°	1429.0	1379.5	1313.2	1329.5	1372.2
57.5°	1266.7	1200.4	1134.1	1165.1	1218.0
60°	1123.3	1048.8	976.5	1009.6	1071.2
62.5°	986.0	906.7	848.6	880.5	932.6
65°	848.6	783.2	738.4	762.9	814.2
67.5°	722.9	679.0	648.4	660.0	701.4
70°	609.2	581.7	565.3	568.8	592.4
72.5°	501.2	494.3	488.2	488.2	490.4
75°	407.7	411.2	414.6	409.0	399.5
77.5°	321.2	332.8	341.4	329.4	317.7
80°	235.9	254.9	265.6	252.3	234.6
82.5°	161.0	182.6	186.0	177.8	157.6
85°	88.7	104.2	105.5	102.0	88.7
87.5°	33.2	39.2	42.6	39.2	34.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)