

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: P1050661

Luminaire Tested: 24PTR-100-PC3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050661
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-100-PC3-L850-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

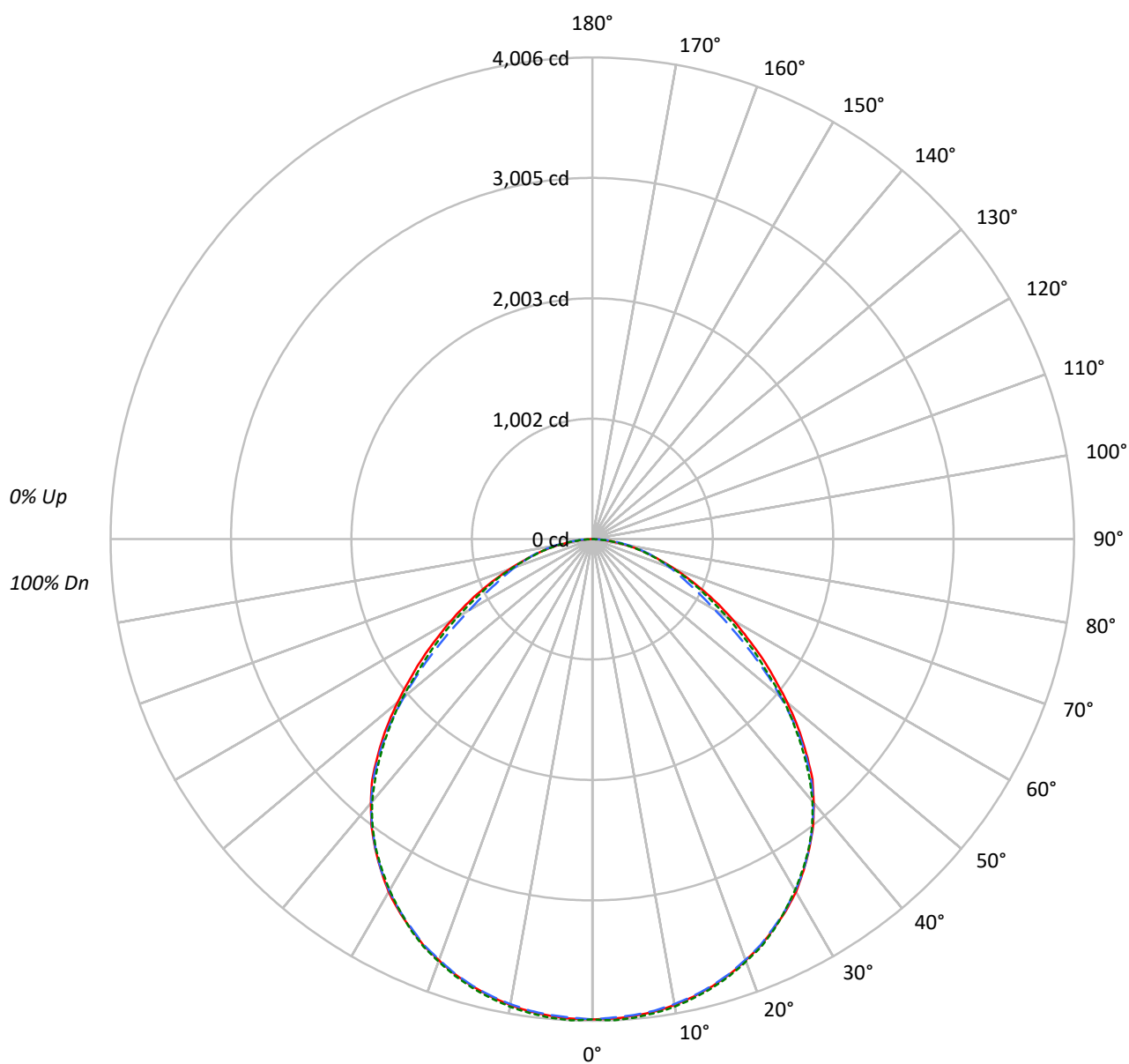
Lumens per Lamp: N/A
Luminaire Lumens: 10070.5 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	72
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5375	5375	5375
5°	5376	5366	5397
10°	5376	5366	5395
15°	5363	5357	5381
20°	5339	5331	5354
25°	5303	5294	5315
30°	5263	5245	5237
35°	5168	5163	5153
40°	5031	5024	5001
45°	4785	4749	4701
50°	4429	4280	4328
55°	4042	3714	3881
60°	3644	3168	3475
65°	3257	2834	3125
70°	2889	2681	2810
75°	2556	2599	2504
80°	2204	2482	2192
85°	1650	1964	1650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.9	3.8
10°-20°	1087.5	10.8
20°-30°	1646.5	16.3
30°-40°	1963.0	19.5
40°-50°	1918.0	19.0
50°-60°	1466.6	14.6
60°-70°	941.6	9.4
70°-80°	523.9	5.2
80°-90°	144.7	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°	3112.8	30.9
0°-40°	5075.7	50.4
0°-60°	8460.4	84.0
0°-90°	10070.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10070.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3994	3994	3994	3994	3994	
5°	3980	3983	3973	3992	3996	379
15°	3850	3853	3846	3859	3863	1087
25°	3572	3576	3566	3578	3580	1647
35°	3146	3149	3143	3142	3137	1966
45°	2514	2520	2496	2490	2470	1935
55°	1723	1663	1583	1603	1654	1540
65°	1023	944	890	920	982	1020
75°	492	496	500	493	482	525
85°	107	126	127	123	107	131
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3994.5	3994.5	3994.5	3994.5	3994.5
2.5°	3991.9	3993.4	3983.0	4000.2	4005.9
5°	3980.4	3983.0	3973.2	3991.9	3996.0
7.5°	3963.3	3965.9	3956.0	3974.7	3976.3
10°	3934.8	3936.3	3927.5	3946.2	3948.8
12.5°	3896.3	3900.5	3890.6	3907.8	3908.8
15°	3850.1	3853.3	3846.0	3859.0	3863.1
17.5°	3796.2	3797.7	3790.5	3804.5	3806.0
20°	3728.7	3728.7	3723.0	3739.1	3739.1
22.5°	3660.2	3656.0	3654.4	3660.2	3669.0
25°	3571.9	3576.1	3566.2	3577.6	3580.2
27.5°	3486.3	3486.3	3477.4	3483.1	3475.9
30°	3387.6	3381.9	3376.2	3377.3	3370.5
32.5°	3268.8	3268.8	3266.2	3266.2	3257.3
35°	3146.3	3148.8	3143.1	3141.6	3137.4
37.5°	3014.4	3019.1	3008.7	3006.1	3003.0
40°	2864.4	2864.4	2860.2	2854.5	2847.3
42.5°	2708.7	2708.7	2690.5	2675.9	2666.1
45°	2514.5	2520.2	2495.8	2490.1	2470.4
47.5°	2321.4	2317.3	2284.5	2280.4	2269.0
50°	2115.8	2091.4	2044.7	2057.2	2067.6
52.5°	1910.3	1880.2	1811.7	1825.7	1842.8
55°	1722.9	1663.2	1583.2	1603.0	1654.4
57.5°	1527.2	1447.2	1367.3	1404.7	1468.5
60°	1354.3	1264.5	1177.3	1217.3	1291.5
62.5°	1188.7	1093.2	1023.1	1061.6	1124.4
65°	1023.1	944.2	890.3	919.8	981.6
67.5°	871.6	818.6	781.8	795.8	845.6
70°	734.5	701.3	681.6	685.7	714.3
72.5°	604.2	595.9	588.7	588.7	591.3
75°	491.6	495.7	499.9	493.1	481.7
77.5°	387.2	401.3	411.6	397.1	383.1
80°	284.5	307.3	320.3	304.2	282.9
82.5°	194.1	220.1	224.3	214.4	190.0
85°	106.9	125.6	127.2	123.0	106.9
87.5°	40.0	47.2	51.4	47.2	41.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)