

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: P1050803

Luminaire Tested: 24PTR-80-PLG-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PLG-L840-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

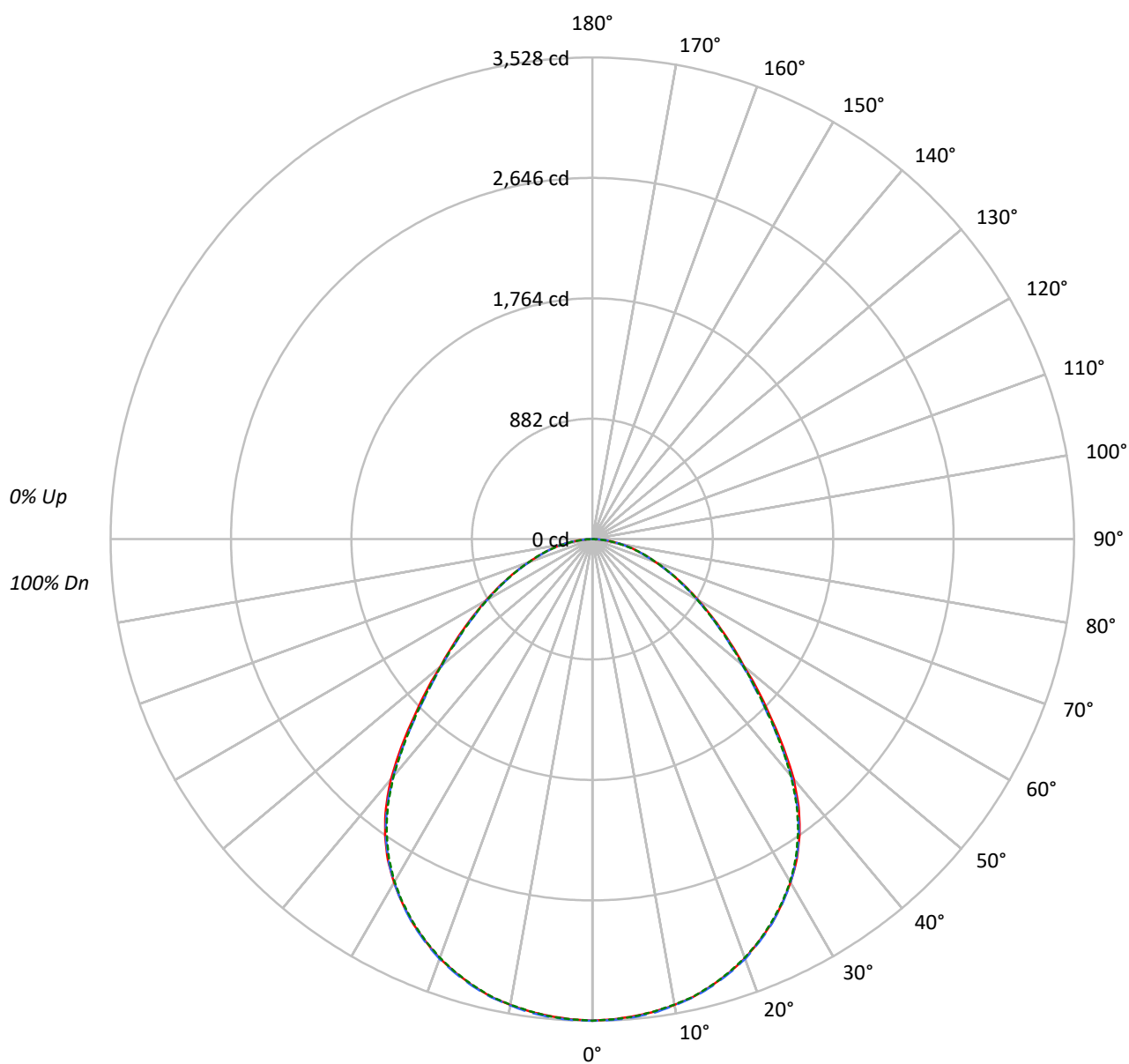
Lumens per Lamp: N/A
Luminaire Lumens: 7949.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050803

CATALOG NUMBER: 24PTR-80-PLG-L840-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	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4746	4746	4746
5°	4738	4748	4741
10°	4734	4738	4731
15°	4715	4722	4712
20°	4678	4685	4671
25°	4613	4616	4602
30°	4512	4512	4501
35°	4347	4334	4314
40°	4028	3984	3971
45°	3521	3463	3478
50°	3040	3003	3019
55°	2702	2661	2666
60°	2419	2385	2385
65°	2168	2152	2160
70°	1950	1930	1950
75°	1809	1783	1809
80°	1688	1668	1610
85°	1430	1430	1275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3521 cd/sqm

TEST NUMBER: P1050803

CATALOG NUMBER: 24PTR-80-PLG-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	4.2
10°-20°	955.7	12.0
20°-30°	1430.0	18.0
30°-40°	1638.3	20.6
40°-50°	1417.0	17.8
50°-60°	1025.5	12.9
60°-70°	675.5	8.5
70°-80°	367.7	4.6
80°-90°	105.4	1.3
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°	2719.6	34.2
0°-40°	4358.0	54.8
0°-60°	6800.5	85.6
0°-90°	7949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3528	3528	3528	3528	3528	
5°	3508	3515	3515	3515	3510	334
15°	3385	3388	3390	3395	3382	955
25°	3107	3107	3110	3112	3100	1429
35°	2646	2644	2639	2636	2626	1644
45°	1850	1845	1820	1818	1828	1433
55°	1152	1147	1134	1127	1137	1037
65°	681	686	676	671	678	680
75°	348	348	343	343	348	371
85°	93	93	93	95	83	107
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-80-PLG-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3527.7	3527.7	3527.7	3527.7	3527.7
2.5°	3520.2	3527.7	3525.2	3527.7	3520.2
5°	3507.7	3515.2	3515.2	3515.2	3510.2
7.5°	3490.2	3495.2	3497.7	3500.2	3487.7
10°	3465.1	3470.1	3467.6	3472.6	3462.6
12.5°	3432.6	3432.6	3435.1	3440.1	3430.1
15°	3385.0	3387.5	3390.0	3395.0	3382.5
17.5°	3329.9	3332.4	3334.9	3337.4	3327.4
20°	3267.3	3267.3	3272.3	3274.8	3262.3
22.5°	3189.7	3189.7	3194.7	3202.2	3187.2
25°	3107.1	3107.1	3109.6	3112.1	3099.6
27.5°	3009.5	3009.5	3012.0	3019.5	3004.4
30°	2904.3	2901.8	2904.3	2906.8	2896.8
32.5°	2786.6	2784.1	2781.6	2784.1	2771.6
35°	2646.4	2643.9	2638.9	2636.4	2626.4
37.5°	2483.7	2478.7	2468.7	2468.7	2458.6
40°	2293.4	2280.9	2268.4	2263.3	2260.8
42.5°	2073.1	2063.1	2045.5	2043.0	2043.0
45°	1850.2	1845.2	1820.2	1817.7	1827.7
47.5°	1649.9	1637.4	1614.9	1609.9	1624.9
50°	1452.1	1454.7	1434.6	1427.1	1442.1
52.5°	1296.9	1291.9	1274.4	1269.4	1281.9
55°	1151.7	1146.7	1134.2	1126.7	1136.7
57.5°	1019.0	1016.5	1004.0	1001.5	1006.5
60°	898.8	896.3	886.3	883.8	886.3
62.5°	786.2	786.2	776.1	771.1	778.7
65°	681.0	686.0	676.0	671.0	678.5
67.5°	585.9	590.9	580.9	575.9	585.9
70°	495.7	500.7	490.7	485.7	495.7
72.5°	418.1	420.6	413.1	410.6	423.1
75°	348.0	348.0	343.0	343.0	348.0
77.5°	282.9	280.4	277.9	277.9	272.9
80°	217.8	215.3	215.3	215.3	207.8
82.5°	155.2	150.2	152.7	155.2	142.7
85°	92.6	92.6	92.6	95.1	82.6
87.5°	37.6	37.6	35.1	37.6	32.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)