

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: P1050957

Luminaire Tested: 24PTR-80-PR1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PR1-L840-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

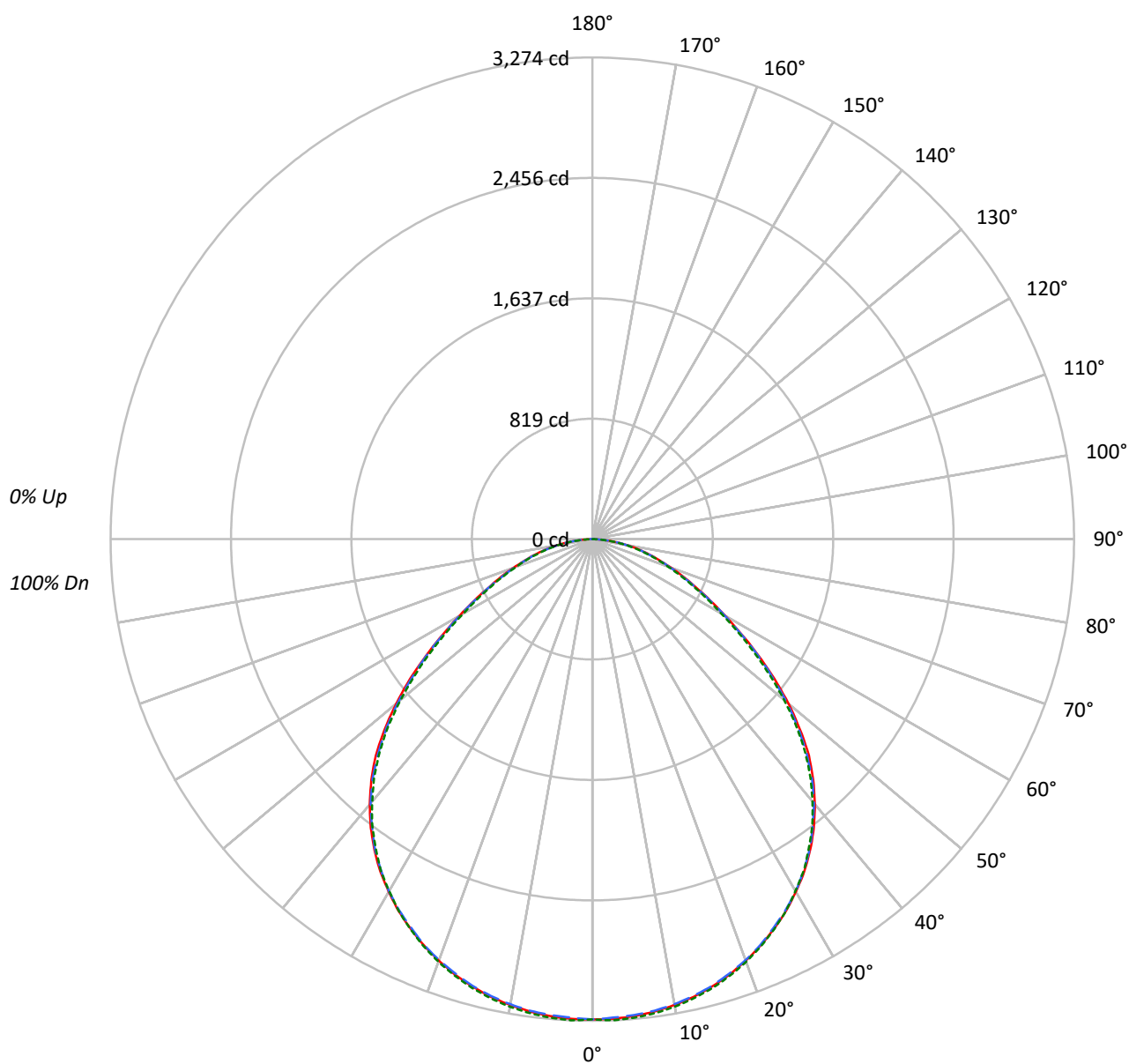
Lumens per Lamp: N/A
Luminaire Lumens: 8256.6 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050957

CATALOG NUMBER: 24PTR-80-PR1-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050957

CATALOG NUMBER: 24PTR-80-PR1-L840-UNV-STD-W

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	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	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	45	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	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4393	4393	4393
5°	4397	4387	4411
10°	4393	4386	4409
15°	4385	4378	4399
20°	4367	4361	4378
25°	4338	4327	4343
30°	4300	4294	4289
35°	4240	4231	4213
40°	4133	4117	4088
45°	3961	3916	3888
50°	3644	3603	3559
55°	3225	3211	3149
60°	2803	2793	2717
65°	2470	2455	2407
70°	2241	2209	2164
75°	2075	2027	1989
80°	1894	1868	1805
85°	1496	1484	1425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3961 cd/sqm

TEST NUMBER: P1050957

CATALOG NUMBER: 24PTR-80-PR1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.7	3.8
10°-20°	888.9	10.8
20°-30°	1346.6	16.3
30°-40°	1607.6	19.5
40°-50°	1580.9	19.1
50°-60°	1221.9	14.8
60°-70°	770.5	9.3
70°-80°	416.7	5.0
80°-90°	113.8	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°	2545.2	30.8
0°-40°	4152.7	50.3
0°-60°	6955.5	84.2
0°-90°	8256.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8256.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3265	3265	3265	3265	3265	
5°	3255	3257	3248	3262	3266	309
15°	3148	3149	3143	3153	3158	888
25°	2922	2924	2915	2924	2926	1347
35°	2582	2582	2576	2572	2565	1612
45°	2082	2074	2058	2042	2043	1594
55°	1375	1386	1369	1347	1342	1234
65°	776	777	771	758	756	781
75°	399	394	390	392	383	424
85°	97	98	96	97	92	115
90°	0	0	0	0	0	

TEST NUMBER: P1050957

CATALOG NUMBER: 24PTR-80-PR1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3264.8	3264.8	3264.8	3264.8	3264.8
2.5°	3263.5	3264.8	3255.4	3270.8	3274.2
5°	3255.4	3256.7	3248.2	3262.2	3266.1
7.5°	3238.9	3241.4	3233.3	3247.4	3250.8
10°	3215.5	3218.0	3210.0	3224.0	3227.4
12.5°	3186.6	3187.4	3180.6	3193.4	3196.8
15°	3147.9	3148.7	3143.2	3153.4	3158.1
17.5°	3103.2	3104.5	3096.4	3109.2	3111.3
20°	3049.7	3050.5	3045.8	3056.5	3057.7
22.5°	2989.7	2992.3	2985.0	2994.4	2995.7
25°	2922.1	2924.2	2914.9	2924.2	2925.5
27.5°	2850.7	2851.5	2843.5	2850.7	2849.4
30°	2767.4	2774.6	2764.0	2761.4	2760.6
32.5°	2681.1	2681.9	2671.7	2669.2	2673.8
35°	2581.6	2582.4	2575.6	2572.2	2565.0
37.5°	2472.7	2472.7	2459.5	2457.4	2456.1
40°	2353.3	2352.0	2343.9	2335.8	2327.3
42.5°	2223.2	2225.7	2209.1	2195.1	2193.0
45°	2081.6	2073.5	2058.2	2042.0	2043.3
47.5°	1914.5	1916.6	1895.8	1882.6	1879.2
50°	1741.0	1741.0	1721.5	1707.4	1700.2
52.5°	1559.9	1561.2	1542.5	1523.8	1519.9
55°	1375.0	1386.4	1369.0	1346.9	1342.2
57.5°	1201.9	1211.3	1194.7	1171.3	1170.0
60°	1041.6	1042.5	1037.8	1015.7	1009.8
62.5°	904.7	898.8	896.2	884.8	877.5
65°	775.9	777.2	771.2	758.1	755.9
67.5°	671.8	670.5	659.8	651.8	647.1
70°	569.7	566.3	561.6	554.8	550.2
72.5°	478.7	478.7	474.9	472.8	464.7
75°	399.2	394.5	389.9	392.0	382.6
77.5°	323.1	318.4	314.6	309.9	307.8
80°	244.5	239.8	241.1	233.8	233.0
82.5°	169.6	169.6	167.5	161.6	162.8
85°	96.9	98.2	96.1	96.9	92.3
87.5°	35.3	36.1	38.7	36.1	36.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)