

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: P1050968

Luminaire Tested: 24PTR-80-PR1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050968
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-L850-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

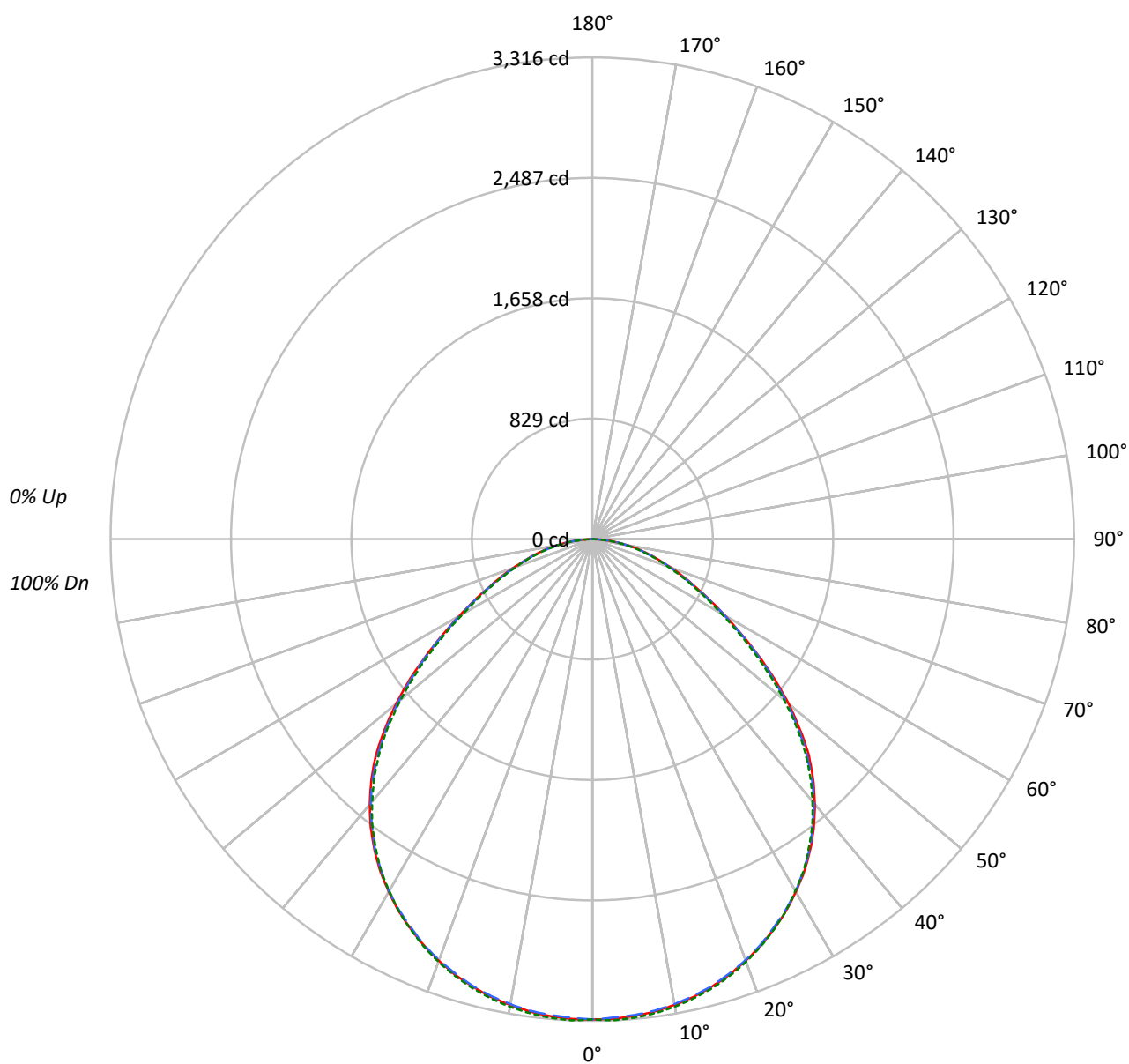
Lumens per Lamp: N/A
Luminaire Lumens: 8362.4 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050968

CATALOG NUMBER: 24PTR-80-PR1-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050968

CATALOG NUMBER: 24PTR-80-PR1-L850-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°	4449	4449	4449
5°	4453	4443	4468
10°	4449	4442	4466
15°	4441	4434	4455
20°	4423	4417	4434
25°	4394	4383	4399
30°	4355	4349	4344
35°	4295	4285	4267
40°	4186	4170	4140
45°	4012	3967	3938
50°	3691	3650	3605
55°	3267	3252	3189
60°	2839	2828	2752
65°	2502	2487	2437
70°	2270	2238	2192
75°	2102	2053	2014
80°	1918	1892	1829
85°	1516	1502	1442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4012 cd/sqm

TEST NUMBER: P1050968

CATALOG NUMBER: 24PTR-80-PR1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	3.8
10°-20°	900.3	10.8
20°-30°	1363.9	16.3
30°-40°	1628.1	19.5
40°-50°	1601.2	19.1
50°-60°	1237.5	14.8
60°-70°	780.3	9.3
70°-80°	422.1	5.0
80°-90°	115.3	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°	2577.8	30.8
0°-40°	4205.9	50.3
0°-60°	7044.6	84.2
0°-90°	8362.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8362.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3307	3307	3307	3307	3307	
5°	3297	3298	3290	3304	3308	313
15°	3188	3189	3184	3194	3198	900
25°	2960	2962	2952	2962	2963	1364
35°	2615	2616	2609	2605	2598	1632
45°	2108	2100	2085	2068	2070	1614
55°	1393	1404	1386	1364	1359	1250
65°	786	787	781	768	766	791
75°	404	400	395	397	388	430
85°	98	100	97	98	93	117
90°	0	0	0	0	0	

TEST NUMBER: P1050968

CATALOG NUMBER: 24PTR-80-PR1-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3306.6	3306.6	3306.6	3306.6	3306.6
2.5°	3305.3	3306.6	3297.1	3312.6	3316.1
5°	3297.1	3298.4	3289.8	3304.0	3307.9
7.5°	3280.3	3282.9	3274.7	3289.0	3292.4
10°	3256.7	3259.2	3251.1	3265.3	3268.7
12.5°	3227.4	3228.2	3221.3	3234.3	3237.7
15°	3188.2	3189.1	3183.5	3193.8	3198.5
17.5°	3143.0	3144.3	3136.1	3149.0	3151.2
20°	3088.7	3089.6	3084.8	3095.6	3096.9
22.5°	3028.0	3030.6	3023.3	3032.7	3034.0
25°	2959.5	2961.7	2952.2	2961.7	2963.0
27.5°	2887.2	2888.1	2879.9	2887.2	2885.9
30°	2802.8	2810.1	2799.4	2796.8	2795.9
32.5°	2715.4	2716.2	2705.9	2703.3	2708.1
35°	2614.6	2615.5	2608.6	2605.2	2597.8
37.5°	2504.4	2504.4	2491.0	2488.9	2487.6
40°	2383.4	2382.1	2373.9	2365.7	2357.1
42.5°	2251.6	2254.2	2237.4	2223.2	2221.1
45°	2108.2	2100.1	2084.6	2068.2	2069.5
47.5°	1939.0	1941.2	1920.1	1906.7	1903.3
50°	1763.3	1763.3	1743.5	1729.3	1722.0
52.5°	1579.9	1581.2	1562.2	1543.3	1539.4
55°	1392.6	1404.2	1386.5	1364.2	1359.4
57.5°	1217.3	1226.8	1210.0	1186.3	1185.0
60°	1055.0	1055.8	1051.1	1028.7	1022.7
62.5°	916.3	910.3	907.7	896.1	888.8
65°	785.9	787.1	781.1	767.8	765.6
67.5°	680.4	679.1	668.3	660.1	655.4
70°	577.0	573.6	568.8	561.9	557.2
72.5°	484.9	484.9	481.0	478.8	470.6
75°	404.3	399.6	394.9	397.0	387.5
77.5°	327.3	322.5	318.6	313.9	311.8
80°	247.6	242.9	244.2	236.8	236.0
82.5°	171.8	171.8	169.7	163.6	164.9
85°	98.2	99.5	97.3	98.2	93.4
87.5°	35.7	36.6	39.2	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)