

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: P1050949

Luminaire Tested: 24PTR-20-PR1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050949
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-20-PR1-L840-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

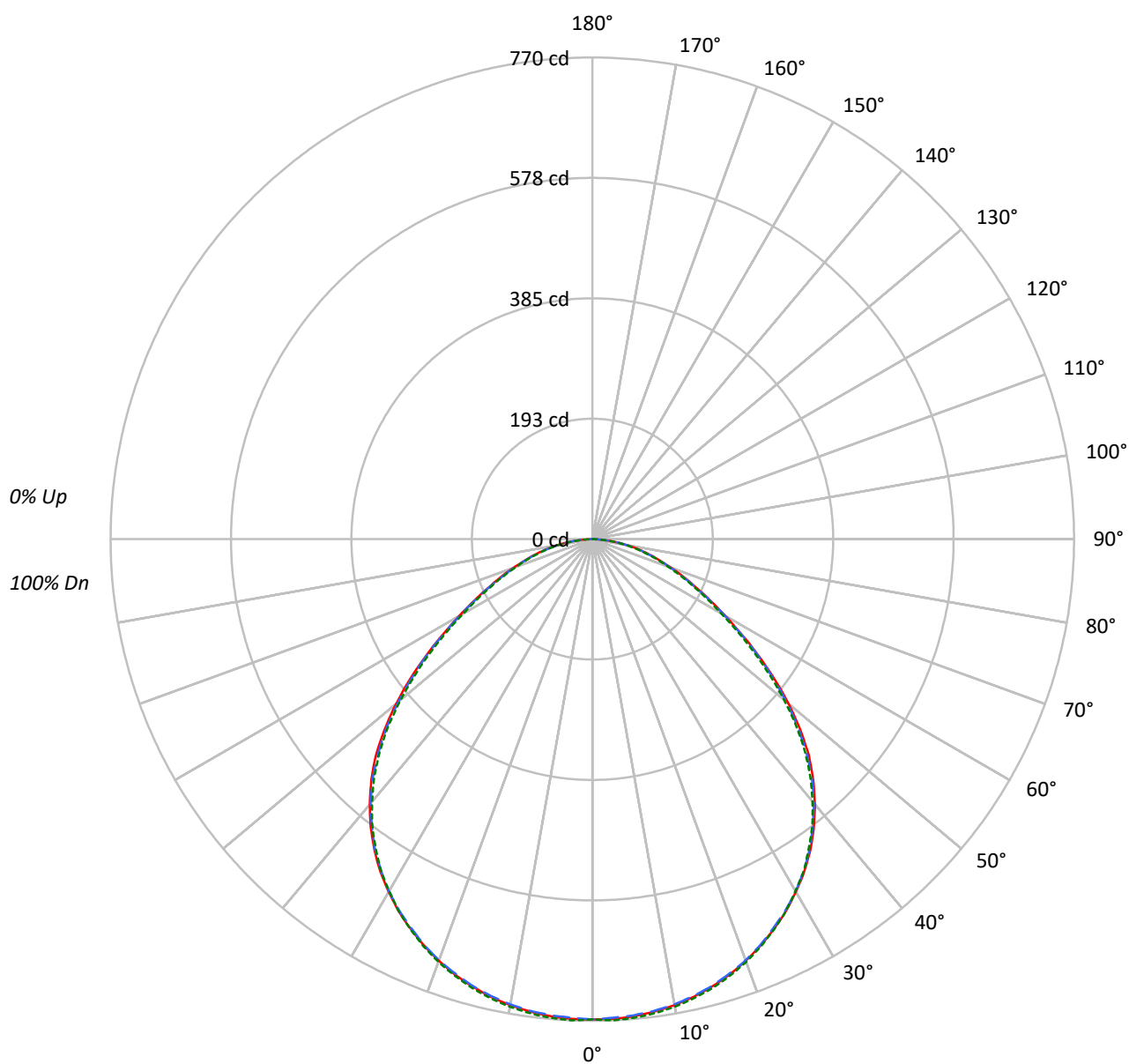
Lumens per Lamp: N/A
Luminaire Lumens: 1942.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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	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°	1033	1033	1033
5°	1034	1032	1038
10°	1033	1032	1037
15°	1031	1030	1035
20°	1027	1026	1030
25°	1020	1018	1022
30°	1011	1010	1009
35°	997	995	991
40°	972	968	961
45°	932	921	914
50°	857	848	837
55°	759	755	741
60°	659	657	639
65°	581	578	566
70°	527	520	509
75°	488	477	468
80°	446	439	425
85°	352	349	335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.8
10°-20°	209.1	10.8
20°-30°	316.7	16.3
30°-40°	378.1	19.5
40°-50°	371.8	19.1
50°-60°	287.4	14.8
60°-70°	181.2	9.3
70°-80°	98.0	5.0
80°-90°	26.8	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°	598.6	30.8
0°-40°	976.7	50.3
0°-60°	1636.0	84.2
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	766	766	764	767	768	73
15°	740	741	739	742	743	209
25°	687	688	686	688	688	317
35°	607	607	606	605	603	379
45°	490	488	484	480	481	375
55°	323	326	322	317	316	290
65°	182	183	181	178	178	184
75°	94	93	92	92	90	100
85°	23	23	23	23	22	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.9	767.9	767.9	767.9	767.9
2.5°	767.6	767.9	765.7	769.3	770.1
5°	765.7	766.0	764.0	767.3	768.2
7.5°	761.8	762.4	760.5	763.8	764.6
10°	756.3	756.9	755.0	758.3	759.1
12.5°	749.5	749.7	748.1	751.1	751.9
15°	740.4	740.6	739.3	741.7	742.8
17.5°	729.9	730.2	728.3	731.3	731.8
20°	717.3	717.5	716.4	718.9	719.2
22.5°	703.2	703.8	702.1	704.3	704.6
25°	687.3	687.8	685.6	687.8	688.1
27.5°	670.5	670.7	668.8	670.5	670.2
30°	650.9	652.6	650.1	649.5	649.3
32.5°	630.6	630.8	628.4	627.8	628.9
35°	607.2	607.4	605.8	605.0	603.3
37.5°	581.6	581.6	578.5	578.0	577.7
40°	553.5	553.2	551.3	549.4	547.4
42.5°	522.9	523.5	519.6	516.3	515.8
45°	489.6	487.7	484.1	480.3	480.6
47.5°	450.3	450.8	445.9	442.8	442.0
50°	409.5	409.5	404.9	401.6	399.9
52.5°	366.9	367.2	362.8	358.4	357.5
55°	323.4	326.1	322.0	316.8	315.7
57.5°	282.7	284.9	281.0	275.5	275.2
60°	245.0	245.2	244.1	238.9	237.5
62.5°	212.8	211.4	210.8	208.1	206.4
65°	182.5	182.8	181.4	178.3	177.8
67.5°	158.0	157.7	155.2	153.3	152.2
70°	134.0	133.2	132.1	130.5	129.4
72.5°	112.6	112.6	111.7	111.2	109.3
75°	93.9	92.8	91.7	92.2	90.0
77.5°	76.0	74.9	74.0	72.9	72.4
80°	57.5	56.4	56.7	55.0	54.8
82.5°	39.9	39.9	39.4	38.0	38.3
85°	22.8	23.1	22.6	22.8	21.7
87.5°	8.3	8.5	9.1	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)