

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: P1050641

Luminaire Tested: 24PTR-20-PC3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050641
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-20-PC3-L840-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

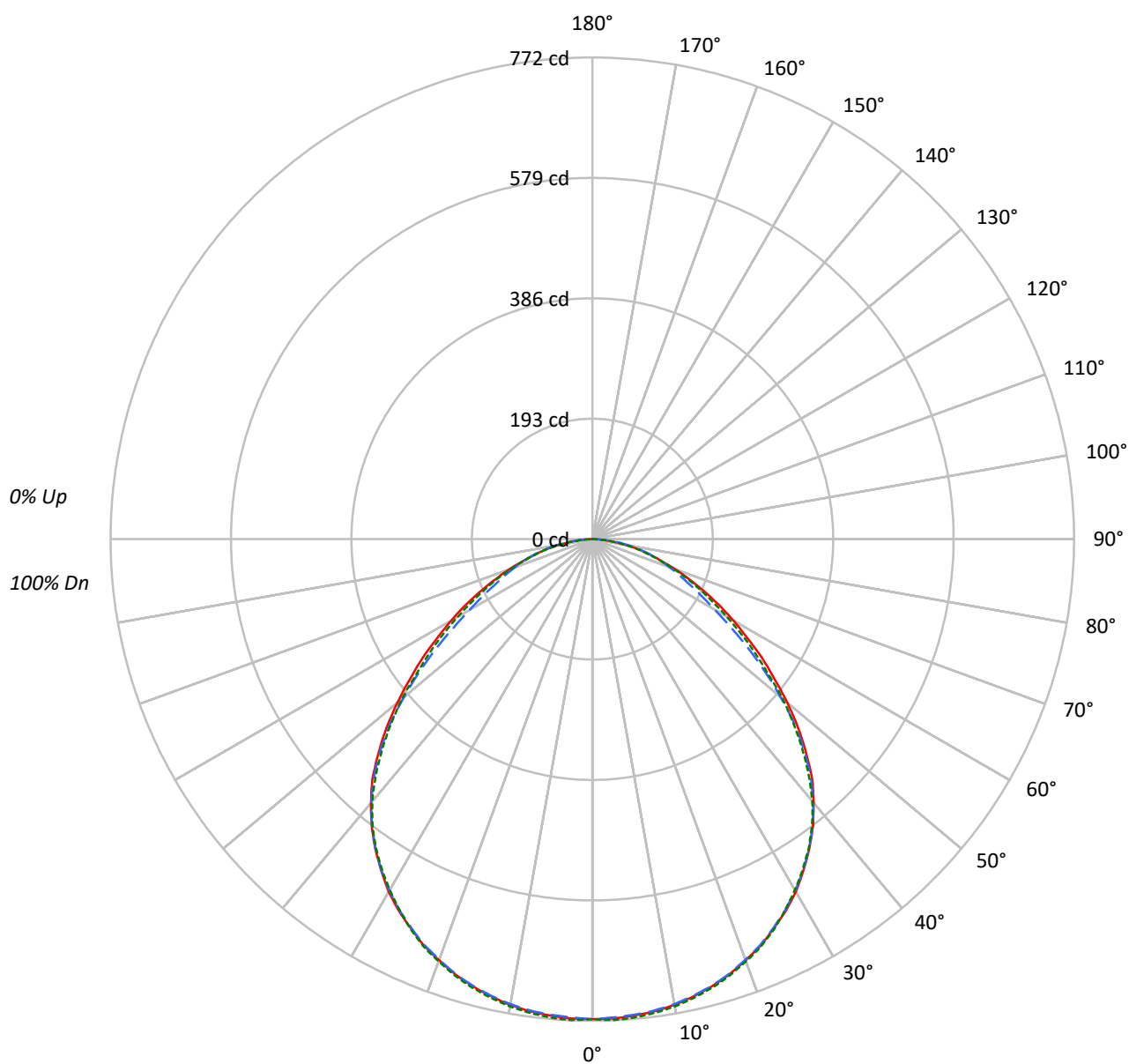
Lumens per Lamp: N/A
Luminaire Lumens: 1940.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	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	46	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	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1035	1035	1035
5°	1036	1034	1040
10°	1036	1034	1039
15°	1033	1032	1037
20°	1028	1027	1031
25°	1022	1020	1024
30°	1014	1010	1009
35°	996	995	993
40°	969	968	963
45°	922	915	906
50°	853	825	834
55°	779	715	748
60°	702	610	670
65°	628	546	602
70°	557	517	541
75°	492	501	482
80°	425	478	422
85°	318	378	318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.8
10°-20°	209.5	10.8
20°-30°	317.2	16.3
30°-40°	378.1	19.5
40°-50°	369.5	19.0
50°-60°	282.5	14.6
60°-70°	181.4	9.4
70°-80°	100.9	5.2
80°-90°	27.9	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°	599.7	30.9
0°-40°	977.8	50.4
0°-60°	1629.8	84.0
0°-90°	1940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	767	767	765	769	770	73
15°	742	742	741	743	744	209
25°	688	689	687	689	690	317
35°	606	607	606	605	604	379
45°	484	486	481	480	476	373
55°	332	320	305	309	319	297
65°	197	182	172	177	189	197
75°	95	96	96	95	93	101
85°	21	24	24	24	21	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.5	769.5	769.5	769.5	769.5
2.5°	769.0	769.3	767.3	770.6	771.7
5°	766.8	767.3	765.4	769.0	769.8
7.5°	763.5	764.0	762.1	765.7	766.0
10°	758.0	758.3	756.6	760.2	760.7
12.5°	750.6	751.4	749.5	752.8	753.0
15°	741.7	742.3	740.9	743.4	744.2
17.5°	731.3	731.6	730.2	732.9	733.2
20°	718.3	718.3	717.2	720.3	720.3
22.5°	705.1	704.3	704.0	705.1	706.8
25°	688.1	688.9	687.0	689.2	689.7
27.5°	671.6	671.6	669.9	671.0	669.6
30°	652.6	651.5	650.4	650.6	649.3
32.5°	629.7	629.7	629.2	629.2	627.5
35°	606.1	606.6	605.5	605.2	604.4
37.5°	580.7	581.6	579.6	579.1	578.5
40°	551.8	551.8	551.0	549.9	548.5
42.5°	521.8	521.8	518.3	515.5	513.6
45°	484.4	485.5	480.8	479.7	475.9
47.5°	447.2	446.4	440.1	439.3	437.1
50°	407.6	402.9	393.9	396.3	398.3
52.5°	368.0	362.2	349.0	351.7	355.0
55°	331.9	320.4	305.0	308.8	318.7
57.5°	294.2	278.8	263.4	270.6	282.9
60°	260.9	243.6	226.8	234.5	248.8
62.5°	229.0	210.6	197.1	204.5	216.6
65°	197.1	181.9	171.5	177.2	189.1
67.5°	167.9	157.7	150.6	153.3	162.9
70°	141.5	135.1	131.3	132.1	137.6
72.5°	116.4	114.8	113.4	113.4	113.9
75°	94.7	95.5	96.3	95.0	92.8
77.5°	74.6	77.3	79.3	76.5	73.8
80°	54.8	59.2	61.7	58.6	54.5
82.5°	37.4	42.4	43.2	41.3	36.6
85°	20.6	24.2	24.5	23.7	20.6
87.5°	7.7	9.1	9.9	9.1	8.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)