

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: P1050564

Luminaire Tested: 24PTR-20-PB1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PB1-L840-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

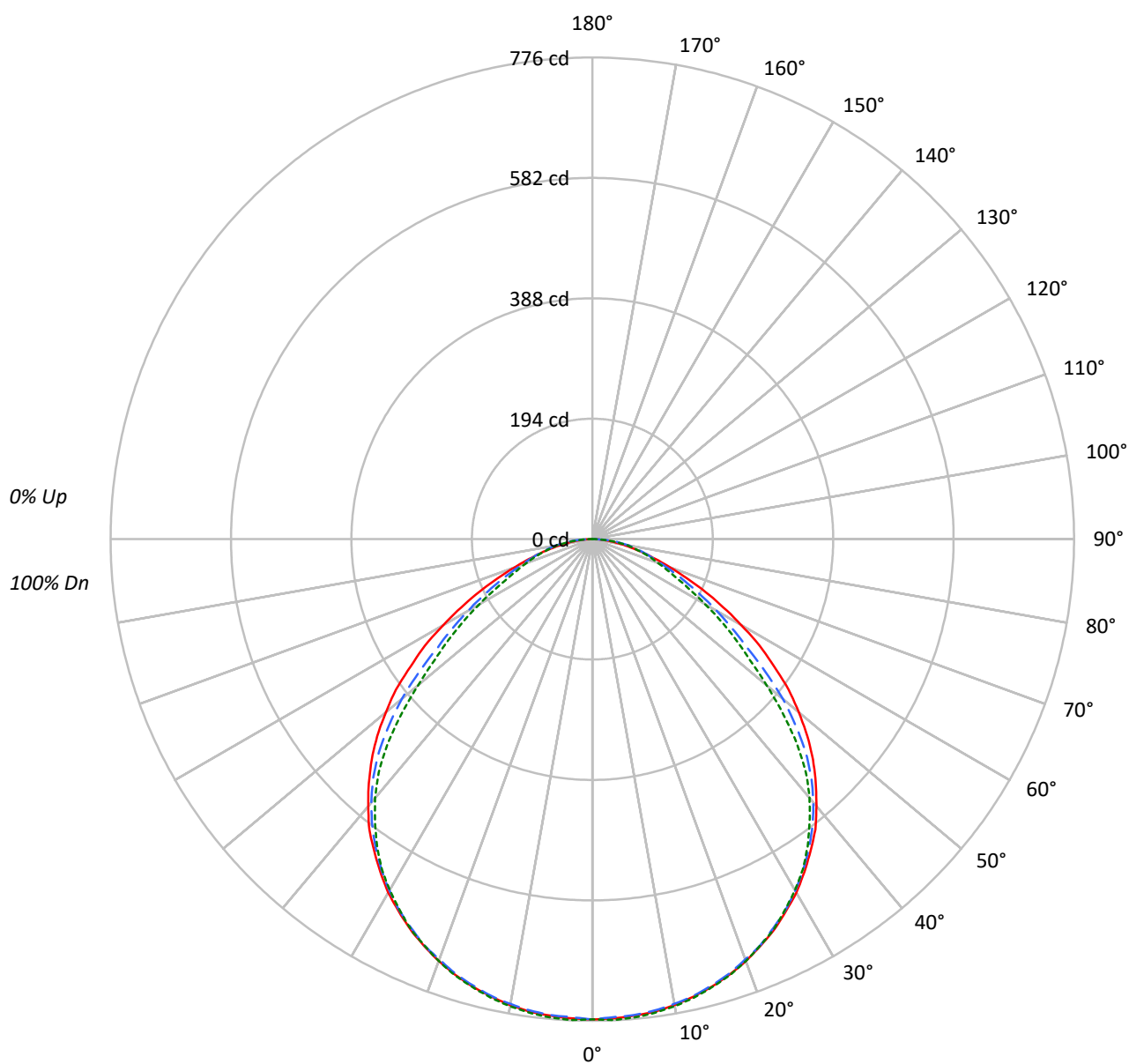
Lumens per Lamp: N/A
Luminaire Lumens: 1929.3 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050564

CATALOG NUMBER: 24PTR-20-PB1-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050564

CATALOG NUMBER: 24PTR-20-PB1-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	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1041	1041	1041
5°	1041	1040	1045
10°	1041	1039	1044
15°	1039	1037	1041
20°	1036	1032	1036
25°	1030	1026	1029
30°	1022	1016	1014
35°	1007	999	993
40°	986	973	956
45°	956	925	887
50°	908	839	767
55°	837	712	661
60°	745	622	566
65°	639	540	482
70°	528	476	442
75°	445	455	430
80°	377	464	443
85°	295	471	412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 956 cd/sqm

TEST NUMBER: P1050564

CATALOG NUMBER: 24PTR-20-PB1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	3.8
10°-20°	210.5	10.9
20°-30°	318.9	16.5
30°-40°	380.0	19.7
40°-50°	371.6	19.3
50°-60°	281.0	14.6
60°-70°	172.7	8.9
70°-80°	92.0	4.8
80°-90°	29.4	1.5
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°	602.7	31.2
0°-40°	982.7	50.9
0°-60°	1635.3	84.8
0°-90°	1929.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1929.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	771	772	770	773	774	73
15°	746	747	744	747	747	211
25°	694	693	691	692	693	320
35°	613	612	608	605	604	383
45°	502	500	486	470	466	387
55°	357	339	304	286	282	320
65°	201	185	170	156	151	200
75°	86	87	88	85	83	92
85°	19	25	30	29	27	23
90°	0	0	0	0	0	

TEST NUMBER: P1050564

CATALOG NUMBER: 24PTR-20-PB1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.7	773.7	773.7	773.7	773.7
2.5°	772.8	773.7	770.8	774.7	775.6
5°	770.8	771.8	769.9	772.8	773.7
7.5°	768.0	768.0	766.1	768.9	769.9
10°	762.3	762.3	760.4	763.2	764.2
12.5°	754.7	754.7	753.7	755.6	756.6
15°	746.2	747.1	744.3	747.1	747.1
17.5°	735.7	734.8	733.8	735.7	736.7
20°	723.3	723.3	720.5	722.4	723.3
22.5°	709.0	709.0	708.1	709.0	708.1
25°	693.8	692.8	690.9	691.9	692.8
27.5°	675.7	675.7	673.8	673.8	672.8
30°	657.6	656.6	653.8	651.9	652.8
32.5°	635.7	634.7	632.0	630.1	631.0
35°	612.9	612.0	608.2	605.3	604.4
37.5°	590.1	587.2	582.4	578.6	574.8
40°	561.5	558.6	553.9	545.3	544.3
42.5°	532.9	530.1	522.4	512.1	509.2
45°	502.5	499.7	486.3	470.1	466.3
47.5°	470.1	465.4	444.4	424.4	416.8
50°	434.0	425.4	400.7	375.0	366.4
52.5°	398.8	383.6	351.2	328.3	319.8
55°	356.9	338.8	303.6	286.5	281.7
57.5°	319.8	295.0	266.5	249.4	245.6
60°	277.0	254.1	231.3	216.0	210.3
62.5°	237.9	217.9	198.9	185.5	178.9
65°	200.8	184.6	169.5	156.1	151.4
67.5°	164.7	156.1	143.7	133.3	130.4
70°	134.2	129.4	120.9	116.1	112.3
72.5°	106.6	108.5	102.8	100.9	98.0
75°	85.6	86.6	87.5	84.7	82.8
77.5°	64.7	69.4	73.2	71.3	69.4
80°	48.6	53.3	59.9	57.2	57.2
82.5°	33.3	39.1	44.8	42.9	41.9
85°	19.1	24.8	30.5	28.6	26.7
87.5°	7.6	12.4	13.3	13.3	12.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)