

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: P1050975

Luminaire Tested: 24PTR-45-PR1-L930-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050975
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-45-PR1-L930-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

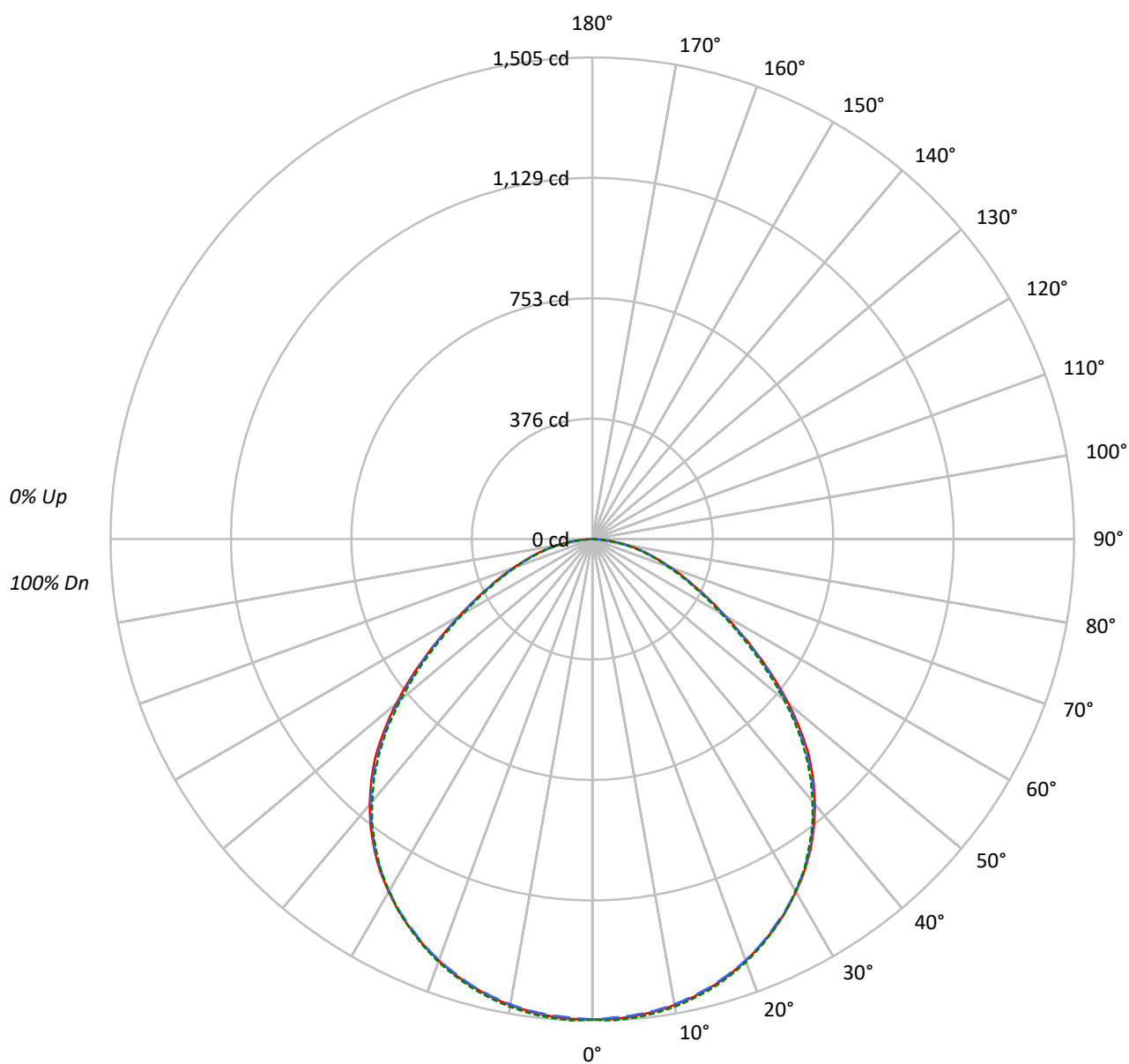
Lumens per Lamp: N/A
Luminaire Lumens: 3795.6 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	2019	2019	2019
5°	2021	2017	2028
10°	2020	2016	2027
15°	2016	2013	2022
20°	2007	2005	2013
25°	1994	1989	1997
30°	1977	1974	1972
35°	1949	1945	1937
40°	1900	1893	1879
45°	1821	1800	1787
50°	1675	1657	1636
55°	1483	1476	1447
60°	1288	1284	1249
65°	1136	1129	1106
70°	1030	1016	995
75°	954	932	914
80°	871	859	830
85°	689	682	655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1821 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.8
10°-20°	408.6	10.8
20°-30°	619.1	16.3
30°-40°	739.0	19.5
40°-50°	726.8	19.1
50°-60°	561.7	14.8
60°-70°	354.2	9.3
70°-80°	191.6	5.0
80°-90°	52.3	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°	1170.0	30.8
0°-40°	1909.0	50.3
0°-60°	3197.5	84.2
0°-90°	3795.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3795.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1496	1497	1493	1500	1501	142
15°	1447	1448	1445	1450	1452	408
25°	1343	1344	1340	1344	1345	619
35°	1187	1187	1184	1182	1179	741
45°	957	953	946	939	939	733
55°	632	637	629	619	617	567
65°	357	357	354	348	348	359
75°	184	181	179	180	176	195
85°	45	45	44	45	42	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.8	1500.8	1500.8	1500.8	1500.8
2.5°	1500.3	1500.8	1496.5	1503.6	1505.1
5°	1496.5	1497.1	1493.2	1499.7	1501.4
7.5°	1488.9	1490.1	1486.4	1492.8	1494.4
10°	1478.2	1479.3	1475.6	1482.1	1483.6
12.5°	1464.9	1465.3	1462.1	1468.0	1469.6
15°	1447.1	1447.5	1444.9	1449.6	1451.8
17.5°	1426.6	1427.2	1423.4	1429.3	1430.3
20°	1401.9	1402.3	1400.2	1405.1	1405.7
22.5°	1374.4	1375.6	1372.2	1376.5	1377.1
25°	1343.3	1344.3	1340.0	1344.3	1344.9
27.5°	1310.5	1310.9	1307.2	1310.5	1309.9
30°	1272.2	1275.5	1270.6	1269.4	1269.0
32.5°	1232.5	1232.9	1228.2	1227.0	1229.2
35°	1186.8	1187.1	1184.0	1182.5	1179.1
37.5°	1136.7	1136.7	1130.7	1129.7	1129.1
40°	1081.8	1081.2	1077.5	1073.8	1069.9
42.5°	1022.0	1023.2	1015.5	1009.1	1008.1
45°	956.9	953.2	946.2	938.7	939.3
47.5°	880.1	881.1	871.5	865.4	863.9
50°	800.4	800.4	791.4	784.9	781.6
52.5°	717.1	717.7	709.1	700.5	698.7
55°	632.1	637.4	629.3	619.2	617.0
57.5°	552.5	556.8	549.2	538.5	537.9
60°	478.8	479.2	477.1	466.9	464.2
62.5°	415.9	413.2	412.0	406.7	403.4
65°	356.7	357.3	354.5	348.5	347.5
67.5°	308.8	308.2	303.3	299.6	297.5
70°	261.9	260.3	258.2	255.1	252.9
72.5°	220.1	220.1	218.3	217.3	213.6
75°	183.5	181.4	179.2	180.2	175.9
77.5°	148.5	146.4	144.6	142.5	141.5
80°	112.4	110.2	110.8	107.5	107.1
82.5°	78.0	78.0	77.0	74.3	74.9
85°	44.6	45.1	44.2	44.6	42.4
87.5°	16.2	16.6	17.8	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)