

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: P1050777

Luminaire Tested: 24PTR-45-PLG-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PLG-L830-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

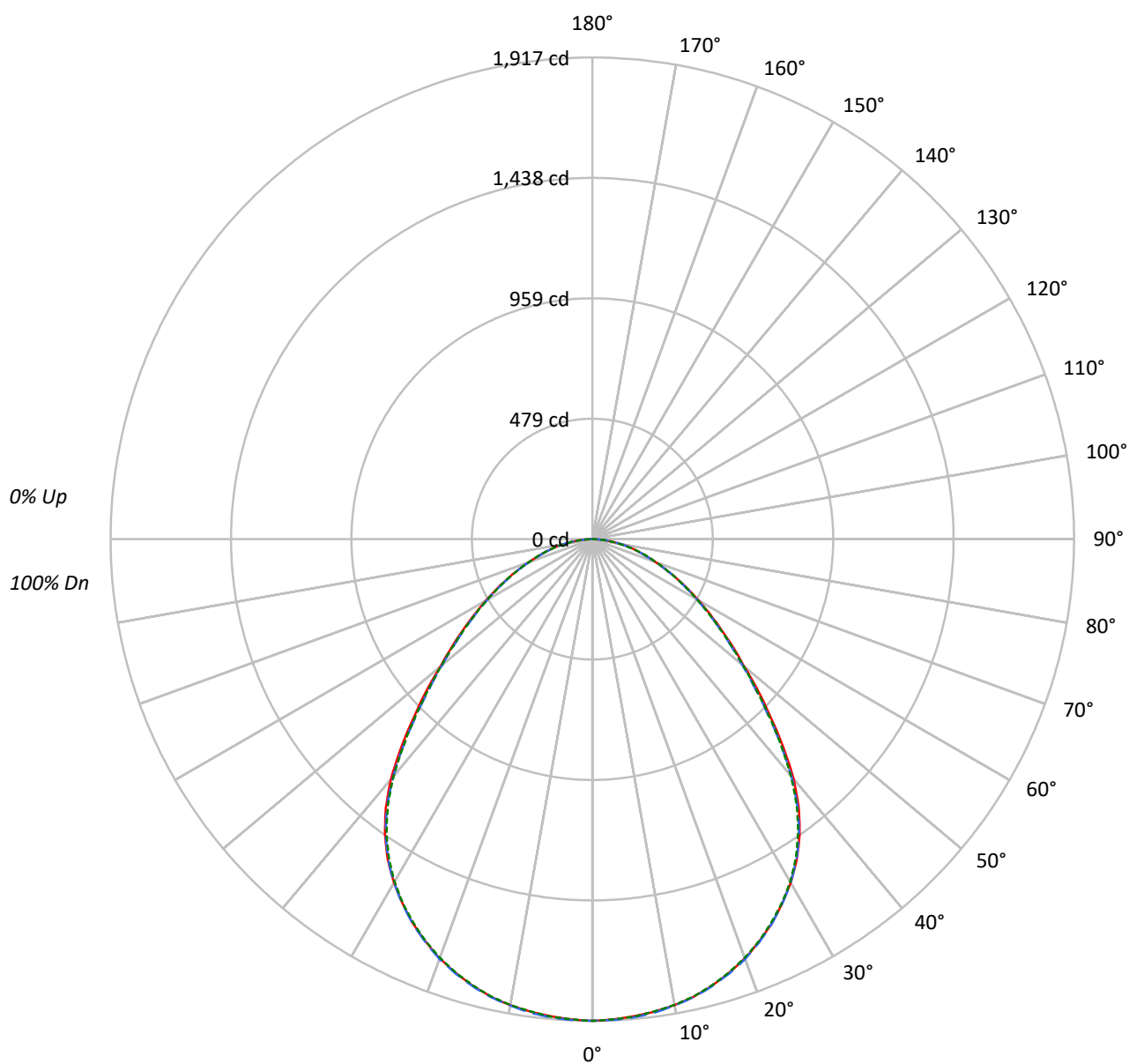
Lumens per Lamp: N/A
Luminaire Lumens: 4319.9 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2580	2580	2580
5°	2575	2580	2576
10°	2573	2575	2571
15°	2562	2566	2561
20°	2543	2546	2539
25°	2507	2509	2501
30°	2452	2452	2446
35°	2362	2356	2344
40°	2189	2165	2158
45°	1913	1882	1890
50°	1652	1632	1640
55°	1468	1446	1449
60°	1315	1296	1296
65°	1178	1170	1174
70°	1060	1049	1060
75°	983	969	983
80°	917	907	875
85°	777	777	693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1913 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	4.2
10°-20°	519.4	12.0
20°-30°	777.1	18.0
30°-40°	890.4	20.6
40°-50°	770.1	17.8
50°-60°	557.3	12.9
60°-70°	367.1	8.5
70°-80°	199.8	4.6
80°-90°	57.3	1.3
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°	1478.0	34.2
0°-40°	2368.4	54.8
0°-60°	3695.8	85.6
0°-90°	4319.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4319.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1917	1917	1917	1917	1917	
5°	1906	1910	1910	1910	1908	181
15°	1840	1841	1842	1845	1838	519
25°	1689	1689	1690	1691	1684	777
35°	1438	1437	1434	1433	1427	893
45°	1006	1003	989	988	993	779
55°	626	623	616	612	618	563
65°	370	373	367	365	369	370
75°	189	189	186	186	189	201
85°	50	50	50	52	45	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1917.2	1917.2	1917.2	1917.2	1917.2
2.5°	1913.1	1917.2	1915.8	1917.2	1913.1
5°	1906.3	1910.4	1910.4	1910.4	1907.6
7.5°	1896.7	1899.5	1900.8	1902.2	1895.4
10°	1883.1	1885.9	1884.5	1887.2	1881.8
12.5°	1865.5	1865.5	1866.8	1869.5	1864.1
15°	1839.6	1841.0	1842.3	1845.0	1838.2
17.5°	1809.7	1811.0	1812.4	1813.7	1808.3
20°	1775.7	1775.7	1778.4	1779.7	1772.9
22.5°	1733.5	1733.5	1736.2	1740.3	1732.1
25°	1688.6	1688.6	1689.9	1691.3	1684.5
27.5°	1635.5	1635.5	1636.9	1640.9	1632.8
30°	1578.4	1577.0	1578.4	1579.7	1574.3
32.5°	1514.4	1513.0	1511.7	1513.0	1506.2
35°	1438.2	1436.8	1434.1	1432.8	1427.3
37.5°	1349.8	1347.0	1341.6	1341.6	1336.2
40°	1246.4	1239.6	1232.8	1230.0	1228.7
42.5°	1126.6	1121.2	1111.7	1110.3	1110.3
45°	1005.5	1002.8	989.2	987.8	993.3
47.5°	896.7	889.9	877.6	874.9	883.1
50°	789.2	790.5	779.7	775.6	783.7
52.5°	704.8	702.1	692.6	689.9	696.7
55°	625.9	623.2	616.4	612.3	617.7
57.5°	553.8	552.4	545.6	544.3	547.0
60°	488.5	487.1	481.7	480.3	481.7
62.5°	427.2	427.2	421.8	419.1	423.2
65°	370.1	372.8	367.4	364.7	368.7
67.5°	318.4	321.1	315.7	312.9	318.4
70°	269.4	272.1	266.7	264.0	269.4
72.5°	227.2	228.6	224.5	223.1	230.0
75°	189.1	189.1	186.4	186.4	189.1
77.5°	153.8	152.4	151.0	151.0	148.3
80°	118.4	117.0	117.0	117.0	112.9
82.5°	84.4	81.6	83.0	84.4	77.6
85°	50.3	50.3	50.3	51.7	44.9
87.5°	20.4	20.4	19.0	20.4	17.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)