

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: P1050788

Luminaire Tested: 24PTR-45-PLG-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050788
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-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

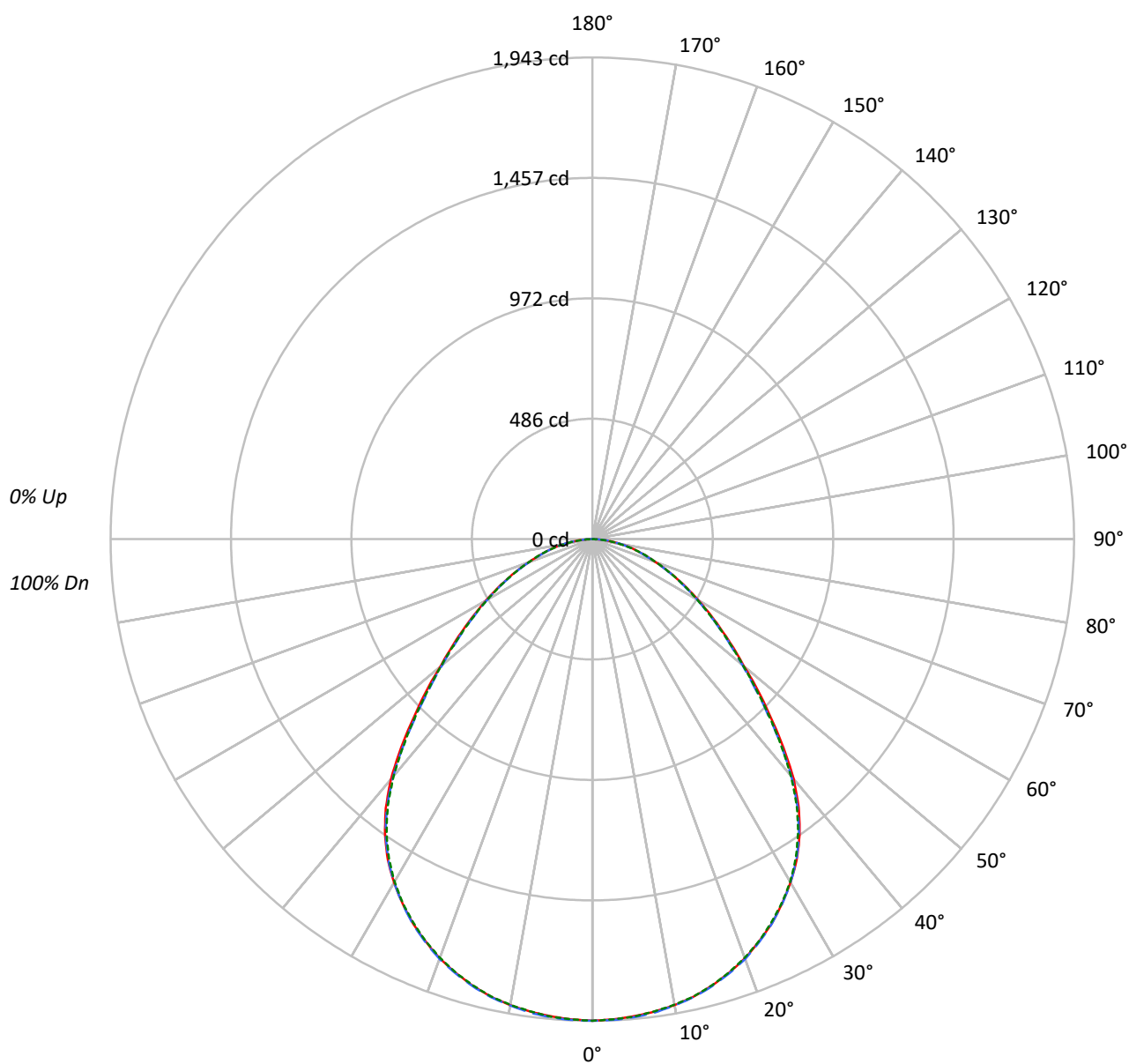
Lumens per Lamp: N/A
Luminaire Lumens: 4378.2 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2614	2614	2614
5°	2609	2615	2611
10°	2607	2609	2606
15°	2597	2601	2595
20°	2577	2581	2573
25°	2541	2543	2534
30°	2485	2485	2479
35°	2394	2387	2376
40°	2219	2194	2187
45°	1939	1908	1916
50°	1674	1654	1663
55°	1488	1465	1469
60°	1332	1314	1314
65°	1194	1185	1190
70°	1074	1063	1074
75°	997	982	997
80°	930	919	887
85°	787	787	702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1939 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	4.2
10°-20°	526.4	12.0
20°-30°	787.6	18.0
30°-40°	902.4	20.6
40°-50°	780.4	17.8
50°-60°	564.8	12.9
60°-70°	372.0	8.5
70°-80°	202.5	4.6
80°-90°	58.0	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°	1497.9	34.2
0°-40°	2400.3	54.8
0°-60°	3745.6	85.6
0°-90°	4378.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4378.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1943	1943	1943	1943	1943	
5°	1932	1936	1936	1936	1933	184
15°	1864	1866	1867	1870	1863	526
25°	1711	1711	1713	1714	1707	787
35°	1458	1456	1454	1452	1447	906
45°	1019	1016	1002	1001	1007	789
55°	634	632	625	621	626	571
65°	375	378	372	370	374	375
75°	192	192	189	189	192	204
85°	51	51	51	52	46	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1943.0	1943.0	1943.0	1943.0	1943.0
2.5°	1938.9	1943.0	1941.6	1943.0	1938.9
5°	1932.0	1936.1	1936.1	1936.1	1933.4
7.5°	1922.3	1925.1	1926.5	1927.9	1921.0
10°	1908.5	1911.3	1909.9	1912.7	1907.2
12.5°	1890.6	1890.6	1892.0	1894.8	1889.2
15°	1864.4	1865.8	1867.2	1869.9	1863.0
17.5°	1834.1	1835.5	1836.8	1838.2	1832.7
20°	1799.6	1799.6	1802.4	1803.7	1796.8
22.5°	1756.9	1756.9	1759.6	1763.7	1755.5
25°	1711.3	1711.3	1712.7	1714.1	1707.2
27.5°	1657.6	1657.6	1658.9	1663.1	1654.8
30°	1599.6	1598.3	1599.6	1601.0	1595.5
32.5°	1534.8	1533.5	1532.1	1533.5	1526.6
35°	1457.6	1456.2	1453.5	1452.1	1446.6
37.5°	1368.0	1365.2	1359.7	1359.7	1354.2
40°	1263.2	1256.3	1249.4	1246.6	1245.2
42.5°	1141.8	1136.3	1126.6	1125.3	1125.3
45°	1019.1	1016.3	1002.5	1001.2	1006.7
47.5°	908.8	901.9	889.5	886.7	895.0
50°	799.8	801.2	790.2	786.0	794.3
52.5°	714.3	711.6	701.9	699.2	706.1
55°	634.3	631.6	624.7	620.6	626.1
57.5°	561.3	559.9	553.0	551.6	554.4
60°	495.1	493.7	488.2	486.8	488.2
62.5°	433.0	433.0	427.5	424.7	428.9
65°	375.1	377.8	372.3	369.6	373.7
67.5°	322.7	325.4	319.9	317.2	322.7
70°	273.0	275.8	270.3	267.5	273.0
72.5°	230.3	231.7	227.5	226.2	233.1
75°	191.7	191.7	188.9	188.9	191.7
77.5°	155.8	154.4	153.1	153.1	150.3
80°	120.0	118.6	118.6	118.6	114.5
82.5°	85.5	82.7	84.1	85.5	78.6
85°	51.0	51.0	51.0	52.4	45.5
87.5°	20.7	20.7	19.3	20.7	17.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)