

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: P1050624

Luminaire Tested: 24PTR-50-PC3-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050624
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-50-PC3-L830-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

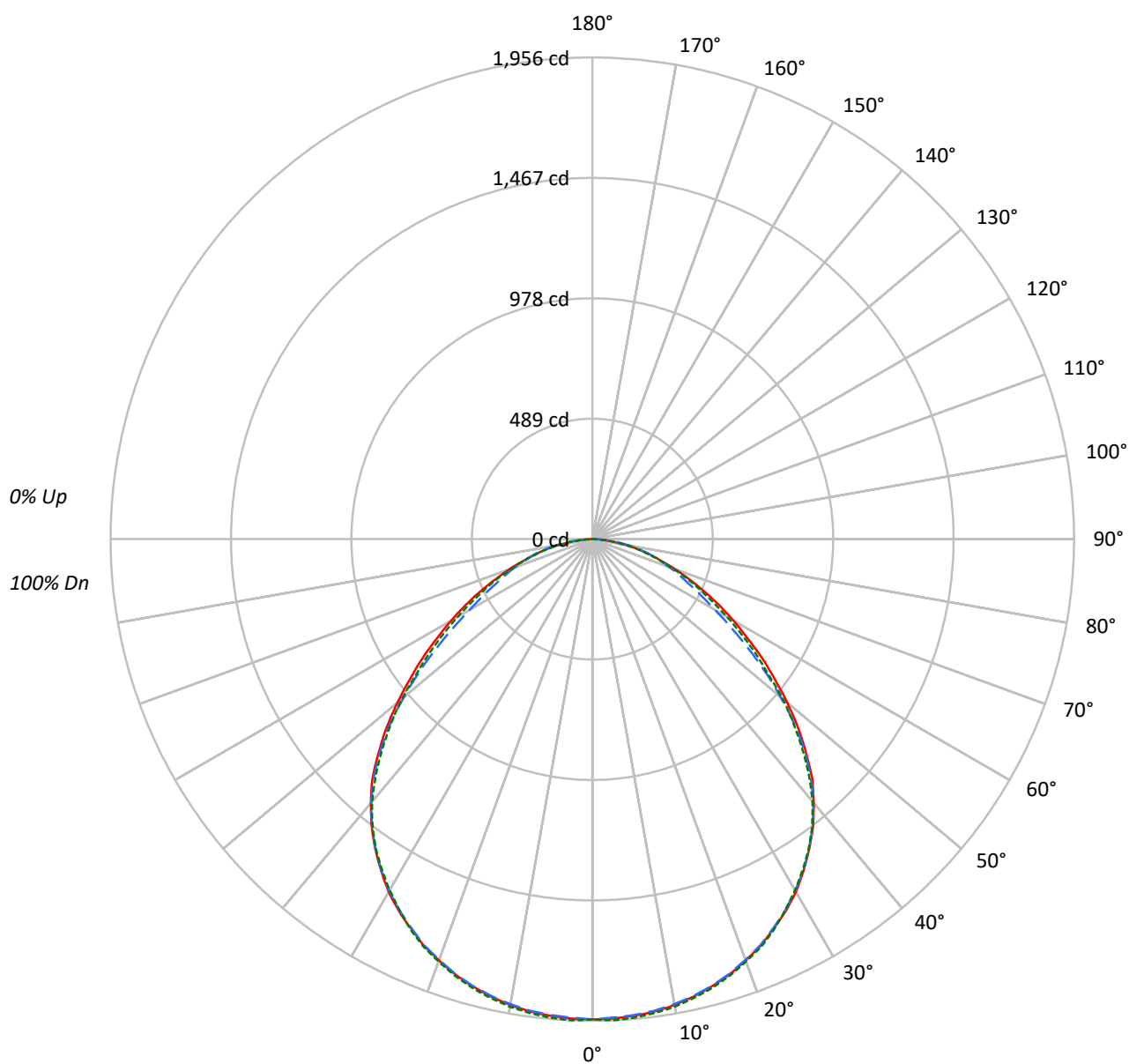
Lumens per Lamp: N/A
Luminaire Lumens: 4916.9 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P1050624

CATALOG NUMBER: 24PTR-50-PC3-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050624

CATALOG NUMBER: 24PTR-50-PC3-L830-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	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°	2624	2624	2624
5°	2625	2620	2635
10°	2625	2620	2634
15°	2618	2616	2627
20°	2607	2603	2614
25°	2589	2585	2595
30°	2570	2561	2557
35°	2523	2521	2516
40°	2456	2453	2442
45°	2336	2319	2295
50°	2162	2090	2113
55°	1973	1813	1895
60°	1779	1547	1697
65°	1590	1384	1526
70°	1411	1309	1372
75°	1248	1269	1223
80°	1076	1212	1070
85°	806	959	806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2341 cd/sqm

TEST NUMBER: P1050624

CATALOG NUMBER: 24PTR-50-PC3-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	3.8
10°-20°	531.0	10.8
20°-30°	803.9	16.3
30°-40°	958.4	19.5
40°-50°	936.5	19.0
50°-60°	716.1	14.6
60°-70°	459.7	9.4
70°-80°	255.8	5.2
80°-90°	70.7	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°	1519.8	30.9
0°-40°	2478.2	50.4
0°-60°	4130.8	84.0
0°-90°	4916.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4916.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1943	1945	1940	1949	1951	185
15°	1880	1881	1878	1884	1886	531
25°	1744	1746	1741	1747	1748	804
35°	1536	1537	1535	1534	1532	960
45°	1228	1230	1219	1216	1206	945
55°	841	812	773	783	808	752
65°	500	461	435	449	479	498
75°	240	242	244	241	235	256
85°	52	61	62	60	52	64
90°	0	0	0	0	0	

TEST NUMBER: P1050624

CATALOG NUMBER: 24PTR-50-PC3-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.3	1950.3	1950.3	1950.3	1950.3
2.5°	1949.0	1949.8	1944.7	1953.1	1955.9
5°	1943.4	1944.7	1939.9	1949.0	1951.1
7.5°	1935.1	1936.4	1931.5	1940.7	1941.4
10°	1921.1	1921.9	1917.6	1926.7	1928.0
12.5°	1902.4	1904.4	1899.6	1908.0	1908.5
15°	1879.8	1881.4	1877.8	1884.1	1886.2
17.5°	1853.5	1854.2	1850.7	1857.5	1858.3
20°	1820.5	1820.5	1817.7	1825.6	1825.6
22.5°	1787.1	1785.0	1784.3	1787.1	1791.4
25°	1744.0	1746.0	1741.2	1746.8	1748.0
27.5°	1702.2	1702.2	1697.9	1700.6	1697.1
30°	1654.0	1651.2	1648.4	1648.9	1645.6
32.5°	1596.0	1596.0	1594.7	1594.7	1590.4
35°	1536.2	1537.4	1534.6	1533.9	1531.8
37.5°	1471.8	1474.1	1469.0	1467.7	1466.2
40°	1398.5	1398.5	1396.5	1393.7	1390.2
42.5°	1322.5	1322.5	1313.6	1306.5	1301.7
45°	1227.7	1230.5	1218.6	1215.8	1206.2
47.5°	1133.4	1131.4	1115.4	1113.4	1107.8
50°	1033.1	1021.1	998.3	1004.4	1009.5
52.5°	932.7	918.0	884.5	891.4	899.7
55°	841.2	812.1	773.0	782.7	807.7
57.5°	745.6	706.6	667.6	685.8	717.0
60°	661.2	617.4	574.8	594.3	630.6
62.5°	580.4	533.8	499.5	518.3	549.0
65°	499.5	461.0	434.7	449.1	479.3
67.5°	425.5	399.7	381.7	388.5	412.9
70°	358.6	342.4	332.8	334.8	348.7
72.5°	295.0	291.0	287.4	287.4	288.7
75°	240.0	242.0	244.1	240.8	235.2
77.5°	189.1	195.9	201.0	193.9	187.0
80°	138.9	150.0	156.4	148.5	138.1
82.5°	94.8	107.5	109.5	104.7	92.8
85°	52.2	61.3	62.1	60.1	52.2
87.5°	19.5	23.1	25.1	23.1	20.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)