

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: P1050800

Luminaire Tested: 24PTR-50-PLG-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050800
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-50-PLG-L840-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

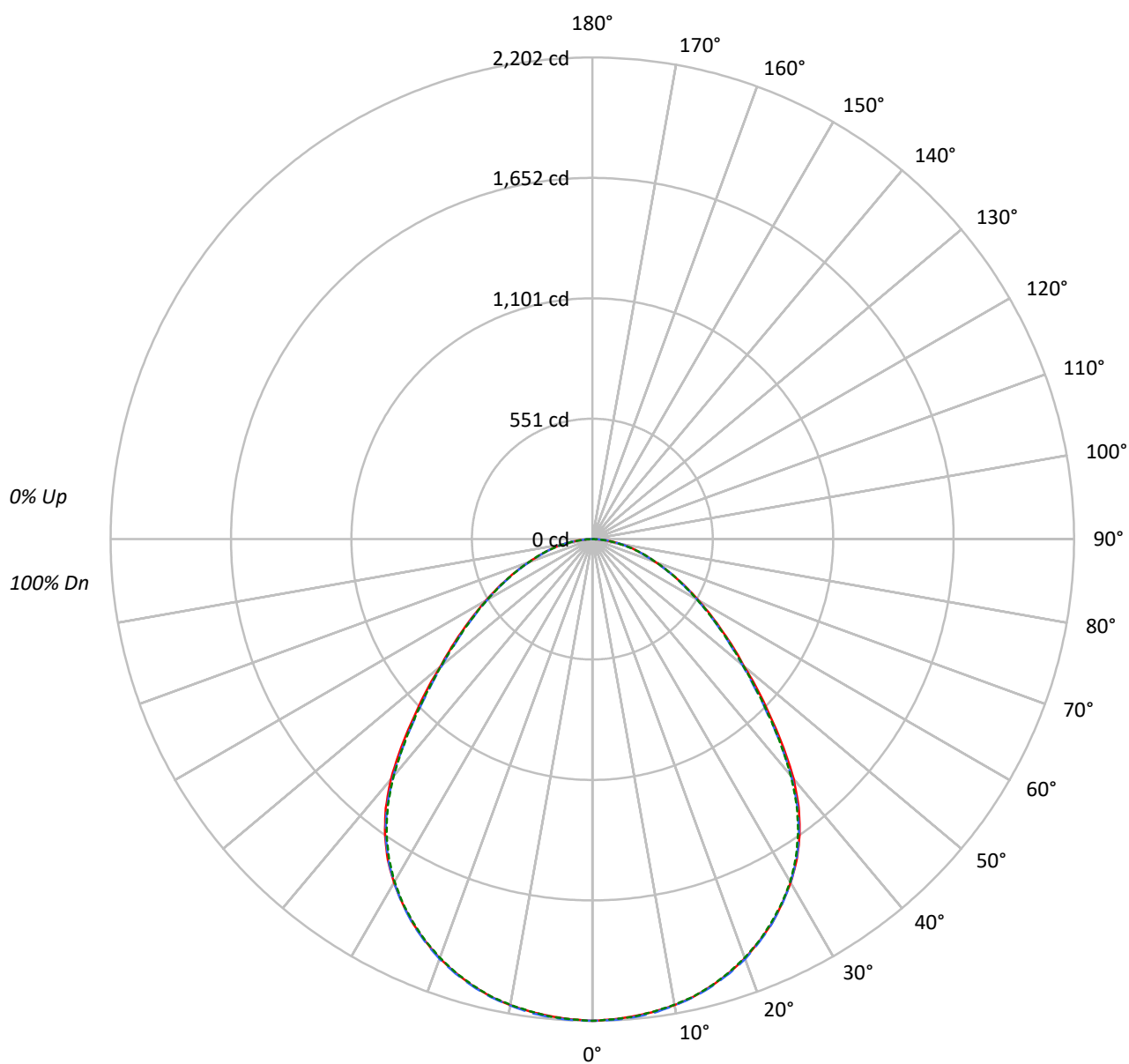
Lumens per Lamp: N/A
Luminaire Lumens: 4961.9 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1050800

CATALOG NUMBER: 24PTR-50-PLG-L840-UNV-STD-W

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°	2963	2963	2963
5°	2957	2964	2959
10°	2955	2957	2953
15°	2943	2948	2941
20°	2920	2925	2916
25°	2879	2882	2872
30°	2817	2817	2809
35°	2713	2706	2693
40°	2514	2487	2479
45°	2198	2162	2171
50°	1897	1874	1884
55°	1686	1661	1664
60°	1510	1489	1489
65°	1353	1344	1348
70°	1217	1205	1217
75°	1129	1113	1129
80°	1054	1041	1005
85°	892	892	797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2198 cd/sqm

TEST NUMBER: P1050800

CATALOG NUMBER: 24PTR-50-PLG-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	4.2
10°-20°	596.6	12.0
20°-30°	892.6	18.0
30°-40°	1022.7	20.6
40°-50°	884.5	17.8
50°-60°	640.1	12.9
60°-70°	421.6	8.5
70°-80°	229.5	4.6
80°-90°	65.8	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°	1697.7	34.2
0°-40°	2720.3	54.8
0°-60°	4245.0	85.6
0°-90°	4961.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4961.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2190	2194	2194	2194	2191	208
15°	2113	2114	2116	2119	2111	596
25°	1940	1940	1941	1943	1935	892
35°	1652	1650	1647	1646	1639	1026
45°	1155	1152	1136	1135	1141	894
55°	719	716	708	703	710	647
65°	425	428	422	419	424	424
75°	217	217	214	214	217	231
85°	58	58	58	59	52	67
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-50-PLG-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2202.1	2202.1	2202.1	2202.1	2202.1
2.5°	2197.4	2202.1	2200.5	2202.1	2197.4
5°	2189.6	2194.2	2194.2	2194.2	2191.1
7.5°	2178.6	2181.7	2183.3	2184.9	2177.1
10°	2163.0	2166.1	2164.6	2167.7	2161.4
12.5°	2142.7	2142.7	2144.2	2147.4	2141.1
15°	2113.0	2114.5	2116.1	2119.2	2111.4
17.5°	2078.6	2080.2	2081.7	2083.3	2077.0
20°	2039.5	2039.5	2042.7	2044.2	2036.4
22.5°	1991.1	1991.1	1994.2	1998.9	1989.5
25°	1939.5	1939.5	1941.1	1942.6	1934.8
27.5°	1878.6	1878.6	1880.1	1884.8	1875.4
30°	1812.9	1811.3	1812.9	1814.5	1808.2
32.5°	1739.5	1737.9	1736.3	1737.9	1730.1
35°	1651.9	1650.4	1647.2	1645.7	1639.4
37.5°	1550.4	1547.2	1541.0	1541.0	1534.7
40°	1431.6	1423.8	1415.9	1412.8	1411.3
42.5°	1294.0	1287.8	1276.9	1275.3	1275.3
45°	1154.9	1151.8	1136.2	1134.6	1140.9
47.5°	1029.9	1022.1	1008.0	1004.9	1014.3
50°	906.5	908.0	895.5	890.8	900.2
52.5°	809.6	806.4	795.5	792.4	800.2
55°	718.9	715.8	708.0	703.3	709.5
57.5°	636.1	634.5	626.7	625.1	628.3
60°	561.1	559.5	553.3	551.7	553.3
62.5°	490.7	490.7	484.5	481.4	486.0
65°	425.1	428.2	422.0	418.8	423.5
67.5°	365.7	368.8	362.6	359.5	365.7
70°	309.4	312.6	306.3	303.2	309.4
72.5°	261.0	262.6	257.9	256.3	264.1
75°	217.2	217.2	214.1	214.1	217.2
77.5°	176.6	175.0	173.5	173.5	170.4
80°	136.0	134.4	134.4	134.4	129.7
82.5°	96.9	93.8	95.3	96.9	89.1
85°	57.8	57.8	57.8	59.4	51.6
87.5°	23.4	23.4	21.9	23.4	20.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)