

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: P1050255

Luminaire Tested: PTR-14-50-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PL1-L830-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

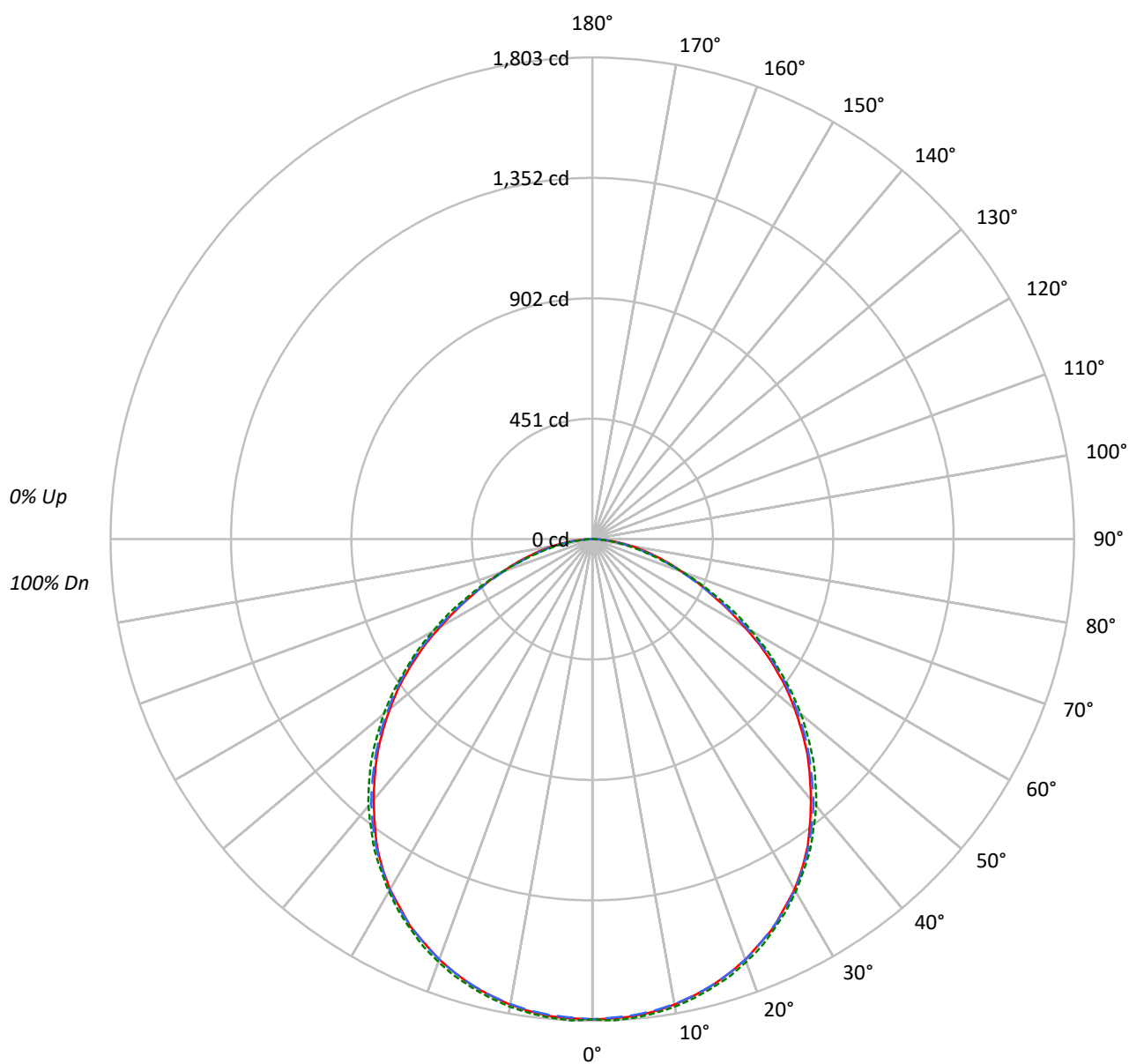
Lumens per Lamp: N/A
Luminaire Lumens: 4737.6 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4836	4836	4836
5°	4841	4831	4858
10°	4834	4829	4856
15°	4820	4818	4842
20°	4796	4796	4823
25°	4763	4757	4782
30°	4703	4710	4732
35°	4614	4631	4668
40°	4470	4522	4580
45°	4331	4367	4450
50°	4140	4184	4268
55°	3899	3962	4008
60°	3537	3612	3702
65°	3142	3175	3303
70°	2808	2751	2819
75°	2534	2387	2339
80°	2303	2137	1897
85°	1951	1769	1525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4450 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	3.6
10°-20°	489.0	10.3
20°-30°	739.6	15.6
30°-40°	881.6	18.6
40°-50°	886.5	18.7
50°-60°	752.4	15.9
60°-70°	501.0	10.6
70°-80°	250.1	5.3
80°-90°	66.9	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°	1399.1	29.5
0°-40°	2280.7	48.1
0°-60°	3919.6	82.7
0°-90°	4737.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4737.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1792	1792	1789	1797	1798	170
15°	1730	1732	1729	1737	1738	488
25°	1604	1604	1602	1610	1611	738
35°	1404	1406	1410	1420	1421	876
45°	1138	1140	1147	1163	1169	875
55°	831	837	844	852	854	741
65°	493	498	499	506	519	495
75°	244	240	230	224	225	262
85°	63	62	57	54	49	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1797.3	1797.3	1797.3	1797.3	1797.3
2.5°	1795.8	1797.3	1792.5	1801.2	1803.3
5°	1792.0	1792.5	1788.6	1796.6	1798.5
7.5°	1783.3	1784.0	1779.9	1788.6	1789.8
10°	1769.2	1770.7	1767.3	1775.3	1777.2
12.5°	1751.3	1753.3	1749.9	1758.6	1760.0
15°	1730.0	1732.0	1729.3	1736.6	1738.0
17.5°	1703.9	1705.4	1703.9	1710.7	1714.5
20°	1674.6	1674.6	1674.6	1680.7	1684.1
22.5°	1638.1	1641.5	1640.0	1648.0	1651.4
25°	1604.2	1604.2	1602.0	1609.5	1610.7
27.5°	1556.8	1562.1	1561.6	1568.2	1569.6
30°	1513.5	1514.9	1515.7	1520.3	1522.9
32.5°	1461.0	1462.2	1464.4	1470.9	1471.6
35°	1404.4	1405.8	1409.7	1419.6	1421.0
37.5°	1338.5	1345.8	1349.2	1359.8	1361.0
40°	1272.5	1277.1	1287.2	1298.4	1303.7
42.5°	1205.2	1210.5	1216.6	1231.8	1236.7
45°	1138.0	1139.9	1147.4	1162.6	1169.4
47.5°	1063.4	1069.5	1076.0	1089.3	1093.4
50°	988.9	995.4	999.5	1011.4	1019.4
52.5°	913.7	919.7	924.3	931.6	939.5
55°	831.1	836.9	844.5	852.4	854.4
57.5°	747.2	753.7	758.6	767.0	775.7
60°	657.2	664.7	671.2	679.2	687.9
62.5°	573.5	576.6	583.4	596.7	609.3
65°	493.4	497.5	498.7	506.2	518.8
67.5°	426.8	426.8	420.8	423.4	437.5
70°	356.9	354.2	349.6	347.0	358.3
72.5°	300.3	296.9	287.0	282.4	288.4
75°	243.7	240.3	229.6	224.3	225.0
77.5°	195.7	190.4	181.7	172.5	170.6
80°	148.6	146.4	137.9	129.2	122.4
82.5°	105.3	100.7	95.8	90.5	85.2
85°	63.2	61.9	57.3	54.0	49.4
87.5°	25.9	25.9	24.7	23.2	22.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)