

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: P1050451

Luminaire Tested: PTR-14-50-PW1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PW1-L830-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

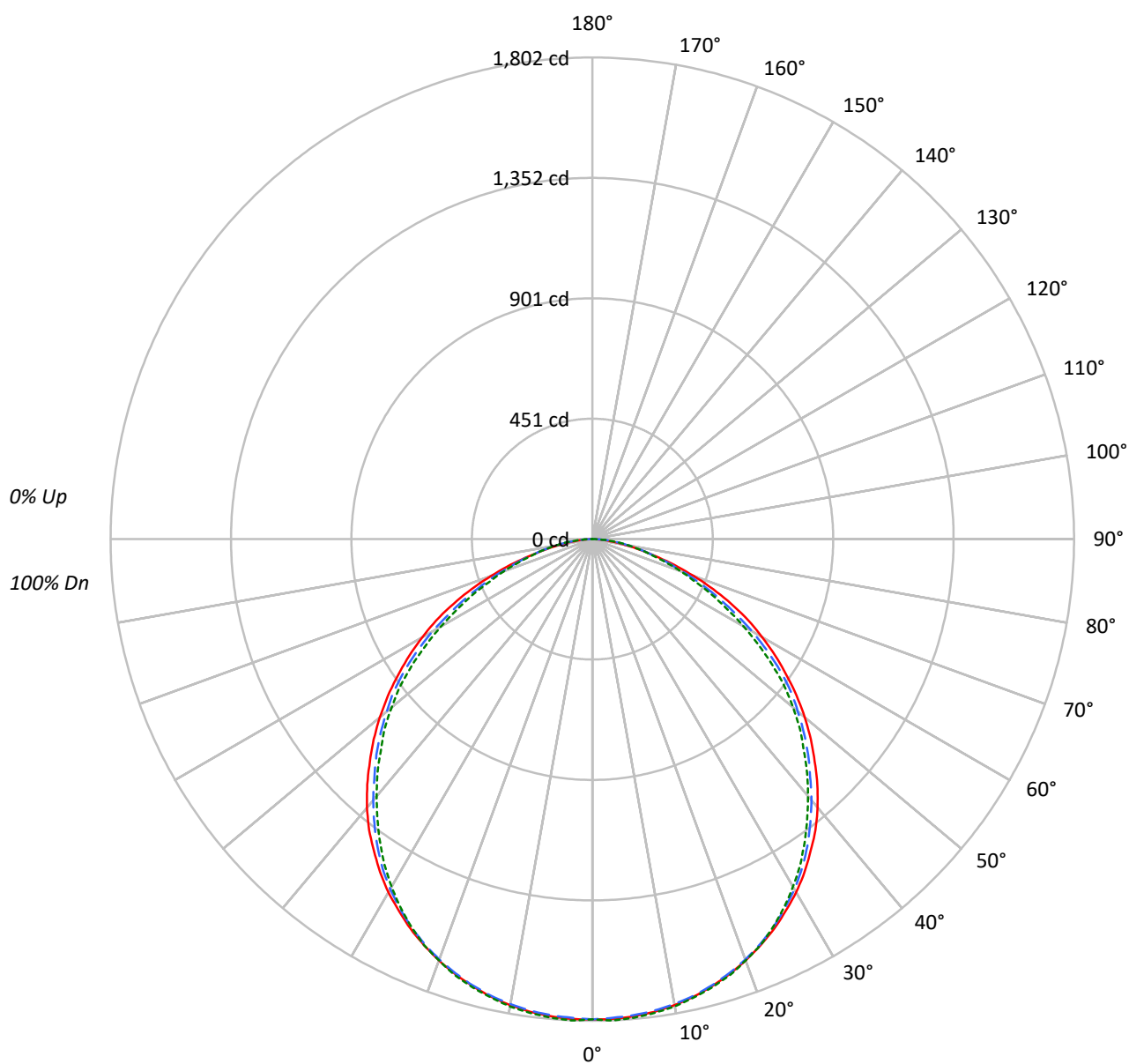
Lumens per Lamp: N/A
Luminaire Lumens: 4769.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4836	4836	4836
5°	4840	4830	4854
10°	4838	4827	4851
15°	4823	4816	4834
20°	4804	4792	4804
25°	4777	4757	4753
30°	4740	4699	4666
35°	4677	4606	4548
40°	4605	4480	4409
45°	4478	4346	4257
50°	4343	4201	4104
55°	4162	4021	3861
60°	3946	3713	3519
65°	3650	3316	3151
70°	3164	2886	2777
75°	2525	2470	2403
80°	1920	2145	2145
85°	1420	1831	1831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4478 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	3.6
10°-20°	488.9	10.2
20°-30°	738.8	15.5
30°-40°	877.3	18.4
40°-50°	883.8	18.5
50°-60°	764.0	16.0
60°-70°	522.1	10.9
70°-80°	257.5	5.4
80°-90°	66.6	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°	1398.1	29.3
0°-40°	2275.3	47.7
0°-60°	3923.1	82.3
0°-90°	4769.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4769.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1792	1792	1788	1795	1797	170
15°	1731	1733	1729	1735	1735	489
25°	1609	1607	1602	1604	1601	741
35°	1424	1419	1402	1390	1384	891
45°	1177	1164	1142	1129	1119	908
55°	887	884	857	832	823	793
65°	573	553	521	498	495	566
75°	243	241	238	238	231	265
85°	46	54	59	60	59	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1797.1	1797.1	1797.1	1797.1	1797.1
2.5°	1796.7	1797.1	1792.5	1800.5	1802.5
5°	1791.8	1792.5	1787.9	1795.2	1797.1
7.5°	1783.4	1784.6	1779.2	1786.5	1787.9
10°	1770.5	1771.3	1766.7	1773.9	1775.4
12.5°	1753.3	1753.8	1750.0	1756.5	1756.5
15°	1731.3	1733.3	1728.7	1734.7	1735.2
17.5°	1706.6	1707.4	1702.8	1709.3	1710.8
20°	1677.4	1677.4	1673.5	1678.8	1677.4
22.5°	1644.7	1644.7	1640.1	1642.8	1644.0
25°	1608.9	1607.4	1602.1	1603.6	1600.9
27.5°	1567.5	1567.5	1558.1	1558.1	1553.5
30°	1525.6	1522.3	1512.3	1506.3	1501.7
32.5°	1477.5	1472.9	1460.3	1449.7	1446.3
35°	1423.8	1418.9	1402.2	1389.7	1384.3
37.5°	1371.8	1361.1	1339.1	1326.5	1320.5
40°	1311.0	1297.7	1275.2	1257.8	1255.1
42.5°	1245.9	1235.3	1206.0	1193.2	1190.0
45°	1176.7	1163.9	1141.9	1128.6	1118.6
47.5°	1108.7	1099.3	1074.1	1058.2	1054.8
50°	1037.3	1029.4	1003.5	986.3	980.2
52.5°	963.5	958.2	936.2	914.2	906.9
55°	887.1	884.4	857.1	831.7	823.0
57.5°	811.8	808.4	774.3	745.0	737.1
60°	733.2	723.3	689.9	662.5	653.8
62.5°	658.7	637.4	601.3	580.0	570.1
65°	573.2	552.7	520.7	498.0	494.8
67.5°	489.5	464.8	440.2	426.1	415.5
70°	402.2	385.5	366.8	355.0	353.0
72.5°	320.9	309.0	299.6	292.3	286.3
75°	242.9	241.0	237.6	237.6	231.1
77.5°	178.6	183.2	185.8	185.1	186.6
80°	123.9	133.1	138.4	139.1	138.4
82.5°	78.6	89.3	98.0	99.2	100.7
85°	46.0	54.0	59.3	60.5	59.3
87.5°	20.6	25.9	27.3	28.6	27.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)