

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: P1050206

Luminaire Tested: PTR-14-50-PC3-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050206
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: PTR-14-50-PC3-L830-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

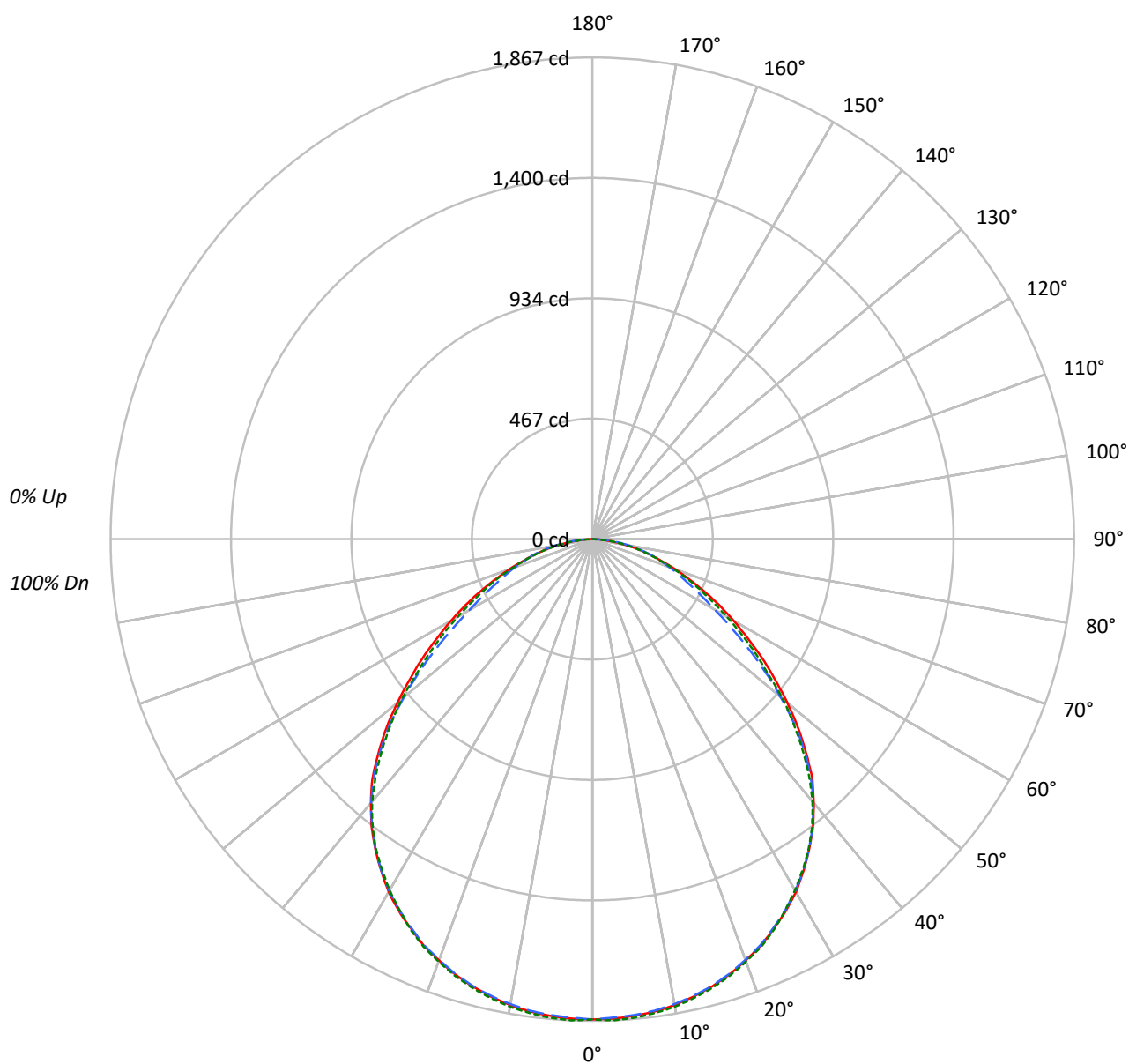
Lumens per Lamp: N/A
Luminaire Lumens: 4693.4 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	5010	5010	5010
5°	5011	5002	5031
10°	5011	5002	5029
15°	4999	4994	5016
20°	4977	4969	4990
25°	4943	4935	4954
30°	4906	4889	4881
35°	4817	4812	4803
40°	4690	4683	4662
45°	4460	4427	4381
50°	4128	3990	4034
55°	3767	3462	3617
60°	3397	2953	3239
65°	3036	2642	2913
70°	2693	2500	2619
75°	2382	2423	2334
80°	2055	2314	2044
85°	1538	1831	1538

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4470 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	3.8
10°-20°	506.8	10.8
20°-30°	767.3	16.3
30°-40°	914.9	19.5
40°-50°	893.9	19.0
50°-60°	683.5	14.6
60°-70°	438.8	9.4
70°-80°	244.1	5.2
80°-90°	67.4	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°	1450.7	30.9
0°-40°	2365.6	50.4
0°-60°	3943.0	84.0
0°-90°	4693.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4693.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1855	1856	1852	1860	1862	176
15°	1794	1796	1792	1798	1800	506
25°	1665	1667	1662	1667	1669	768
35°	1466	1468	1465	1464	1462	916
45°	1172	1175	1163	1160	1151	902
55°	803	775	738	747	771	718
65°	477	440	415	429	458	476
75°	229	231	233	230	224	245
85°	50	58	59	57	50	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1861.6	1861.6	1861.6	1861.6	1861.6
2.5°	1860.4	1861.2	1856.3	1864.3	1867.0
5°	1855.1	1856.3	1851.7	1860.4	1862.4
7.5°	1847.1	1848.3	1843.7	1852.4	1853.2
10°	1833.8	1834.5	1830.4	1839.1	1840.4
12.5°	1815.9	1817.9	1813.3	1821.2	1821.7
15°	1794.4	1795.8	1792.5	1798.5	1800.4
17.5°	1769.2	1770.0	1766.6	1773.1	1773.8
20°	1737.8	1737.8	1735.1	1742.6	1742.6
22.5°	1705.8	1703.9	1703.2	1705.8	1710.0
25°	1664.7	1666.6	1662.1	1667.4	1668.6
27.5°	1624.8	1624.8	1620.7	1623.3	1620.0
30°	1578.8	1576.2	1573.5	1574.0	1570.8
32.5°	1523.4	1523.4	1522.2	1522.2	1518.1
35°	1466.3	1467.5	1464.9	1464.2	1462.2
37.5°	1404.9	1407.1	1402.2	1401.0	1399.6
40°	1335.0	1335.0	1333.0	1330.4	1327.0
42.5°	1262.4	1262.4	1253.9	1247.1	1242.5
45°	1171.9	1174.6	1163.2	1160.5	1151.3
47.5°	1081.9	1080.0	1064.7	1062.8	1057.5
50°	986.1	974.7	953.0	958.8	963.6
52.5°	890.3	876.3	844.3	850.9	858.8
55°	803.0	775.1	737.9	747.1	771.0
57.5°	711.8	674.5	637.2	654.7	684.4
60°	631.2	589.3	548.7	567.3	601.9
62.5°	554.0	509.5	476.8	494.7	524.0
65°	476.8	440.1	414.9	428.7	457.5
67.5°	406.2	381.5	364.3	370.9	394.1
70°	342.3	326.8	317.7	319.6	332.9
72.5°	281.6	277.7	274.3	274.3	275.6
75°	229.1	231.0	233.0	229.8	224.5
77.5°	180.5	187.0	191.8	185.1	178.5
80°	132.6	143.2	149.3	141.8	131.9
82.5°	90.5	102.6	104.5	99.9	88.5
85°	49.8	58.5	59.3	57.3	49.8
87.5°	18.6	22.0	24.0	22.0	19.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)