

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: P1050110

Luminaire Tested: PTR-14-50-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

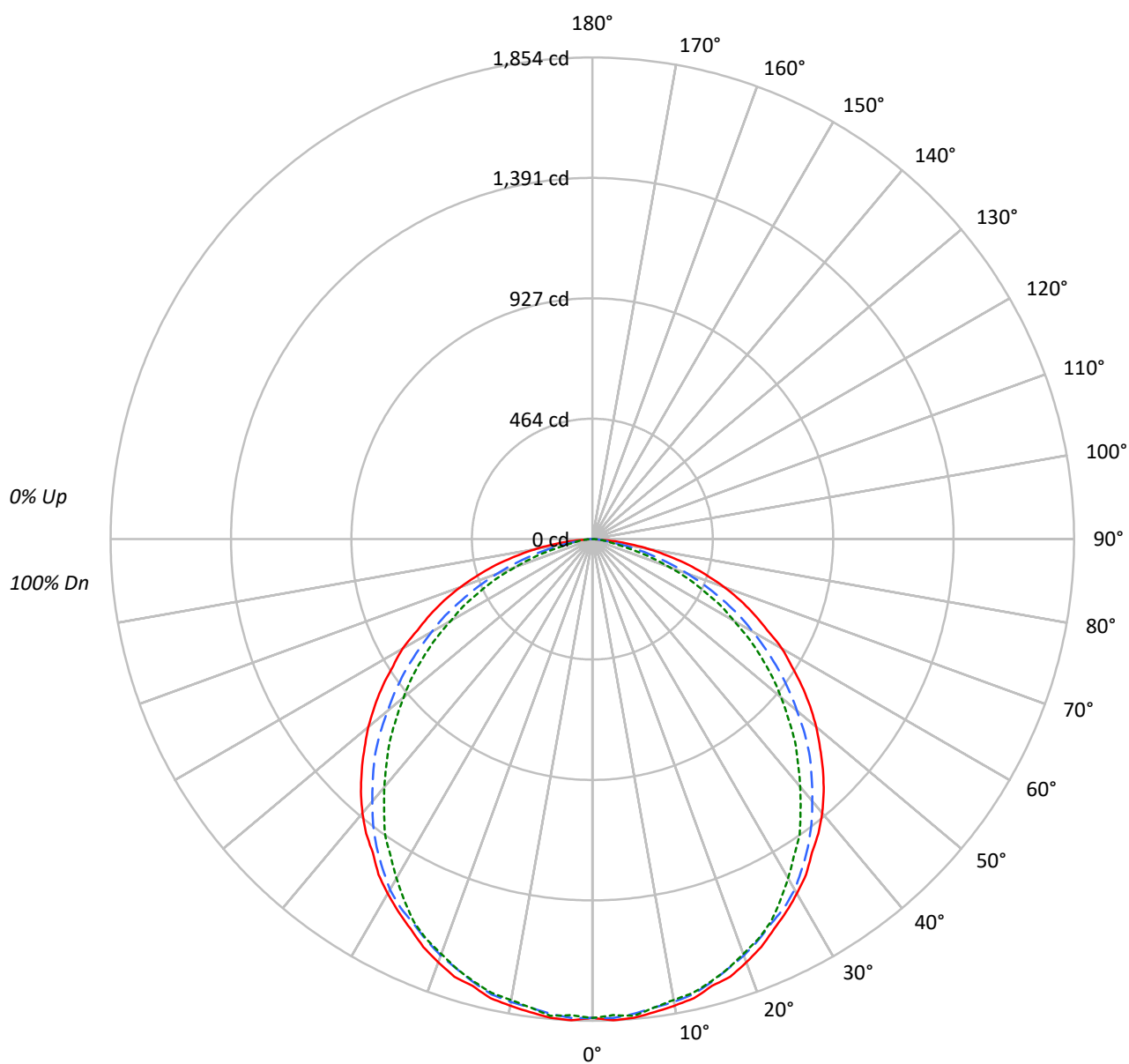
Lumens per Lamp: N/A
Luminaire Lumens: 4908.8 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4959	4959	4959
5°	4996	4954	4975
10°	4982	4943	4921
15°	4960	4920	4911
20°	4963	4885	4866
25°	4915	4843	4826
30°	4894	4840	4683
35°	4839	4752	4568
40°	4835	4627	4372
45°	4774	4507	4198
50°	4710	4305	3970
55°	4619	4104	3728
60°	4536	3839	3385
65°	4382	3522	3026
70°	4240	3065	2470
75°	3983	2419	1700
80°	3453	1463	1021
85°	2303	1050	982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	3.6
10°-20°	499.9	10.2
20°-30°	755.1	15.4
30°-40°	897.7	18.3
40°-50°	910.5	18.5
50°-60°	790.6	16.1
60°-70°	561.3	11.4
70°-80°	268.2	5.5
80°-90°	50.8	1.0
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°	1429.6	29.1
0°-40°	2327.3	47.4
0°-60°	4028.5	82.1
0°-90°	4908.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4908.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1849	1843	1834	1838	1842	176
15°	1780	1785	1766	1764	1763	504
25°	1655	1653	1631	1638	1626	764
35°	1473	1471	1447	1397	1391	926
45°	1254	1244	1184	1122	1103	968
55°	984	955	875	823	795	880
65°	688	637	553	494	475	682
75°	383	313	233	184	164	402
85°	75	40	34	33	32	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.8	1842.8	1842.8	1842.8	1842.8
2.5°	1853.8	1847.2	1845.0	1852.7	1834.1
5°	1849.4	1842.8	1834.1	1838.5	1841.8
7.5°	1836.3	1830.8	1818.7	1828.6	1818.7
10°	1823.1	1817.6	1808.8	1812.1	1801.1
12.5°	1809.9	1796.8	1794.6	1796.8	1789.1
15°	1780.3	1784.7	1766.0	1763.8	1762.7
17.5°	1766.0	1755.0	1735.3	1736.4	1734.2
20°	1733.1	1719.9	1705.7	1703.5	1699.1
22.5°	1699.1	1683.7	1670.5	1677.1	1667.2
25°	1655.2	1653.0	1631.0	1637.6	1625.5
27.5°	1616.7	1609.1	1599.2	1584.9	1567.4
30°	1575.0	1567.4	1557.5	1520.2	1507.0
32.5°	1531.1	1522.4	1502.6	1458.7	1444.4
35°	1473.0	1470.8	1446.6	1397.2	1390.6
37.5°	1429.1	1404.9	1385.2	1334.7	1316.0
40°	1376.4	1363.2	1317.1	1268.8	1244.7
42.5°	1318.2	1302.8	1250.2	1198.6	1172.2
45°	1254.5	1243.6	1184.3	1121.7	1103.1
47.5°	1188.7	1178.8	1108.6	1048.2	1024.0
50°	1125.0	1113.0	1028.4	970.3	948.3
52.5°	1055.9	1036.1	952.7	895.6	874.8
55°	984.5	954.9	874.8	823.2	794.7
57.5°	908.8	881.4	792.5	738.7	715.6
60°	842.9	804.5	713.4	658.6	628.9
62.5°	758.4	725.5	638.8	574.0	559.8
65°	688.2	636.6	553.2	493.9	475.3
67.5°	616.8	556.5	472.0	411.6	401.7
70°	538.9	476.4	389.6	330.4	313.9
72.5°	459.9	398.4	313.9	251.3	241.5
75°	383.1	312.8	232.7	184.4	163.5
77.5°	299.6	236.0	163.5	113.1	99.9
80°	222.8	159.2	94.4	67.0	65.9
82.5°	146.0	92.2	50.5	51.6	49.4
85°	74.6	39.5	34.0	32.9	31.8
87.5°	14.3	15.4	16.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)