

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: P1050248

Luminaire Tested: PTR-14-40-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050248
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-14-40-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

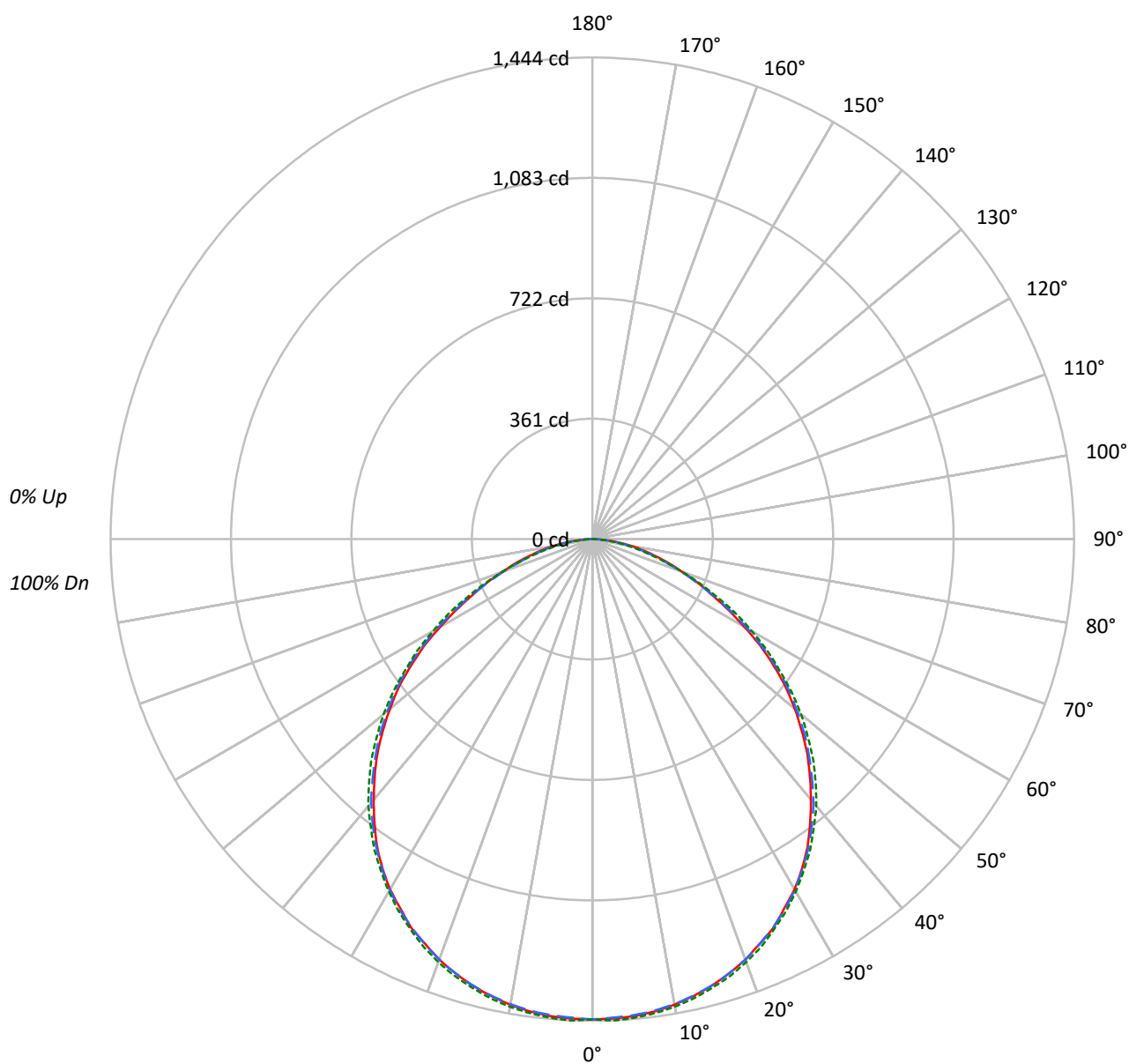
Lumens per Lamp: N/A
Luminaire Lumens: 3794.9 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.1
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°	3874	3874	3874
5°	3877	3870	3891
10°	3872	3868	3890
15°	3861	3859	3879
20°	3841	3841	3863
25°	3815	3810	3831
30°	3767	3773	3791
35°	3695	3710	3739
40°	3581	3622	3668
45°	3469	3498	3565
50°	3316	3352	3418
55°	3124	3173	3211
60°	2833	2893	2965
65°	2516	2544	2646
70°	2249	2204	2258
75°	2030	1912	1874
80°	1844	1712	1520
85°	1562	1417	1220

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3565 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.6
10°-20°	391.7	10.3
20°-30°	592.5	15.6
30°-40°	706.2	18.6
40°-50°	710.1	18.7
50°-60°	602.7	15.9
60°-70°	401.3	10.6
70°-80°	200.4	5.3
80°-90°	53.6	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°	1120.7	29.5
0°-40°	1826.9	48.1
0°-60°	3139.7	82.7
0°-90°	3794.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3794.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1435	1436	1433	1439	1441	136
15°	1386	1387	1385	1391	1392	391
25°	1285	1285	1283	1289	1290	591
35°	1125	1126	1129	1137	1138	702
45°	912	913	919	931	937	701
55°	666	670	676	683	684	593
65°	395	398	400	406	416	396
75°	195	192	184	180	180	210
85°	51	50	46	43	40	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1439.7	1439.7	1439.7	1439.7	1439.7
2.5°	1438.5	1439.7	1435.8	1442.8	1444.5
5°	1435.4	1435.8	1432.7	1439.1	1440.6
7.5°	1428.4	1429.0	1425.7	1432.7	1433.7
10°	1417.2	1418.3	1415.6	1422.0	1423.6
12.5°	1402.8	1404.4	1401.7	1408.6	1409.8
15°	1385.8	1387.3	1385.2	1391.0	1392.2
17.5°	1364.8	1366.0	1364.8	1370.3	1373.4
20°	1341.4	1341.4	1341.4	1346.2	1349.0
22.5°	1312.1	1314.8	1313.7	1320.1	1322.8
25°	1285.0	1285.0	1283.3	1289.3	1290.2
27.5°	1247.0	1251.3	1250.9	1256.1	1257.3
30°	1212.3	1213.5	1214.1	1217.7	1219.9
32.5°	1170.3	1171.2	1173.0	1178.2	1178.8
35°	1124.9	1126.1	1129.2	1137.1	1138.3
37.5°	1072.2	1078.0	1080.7	1089.2	1090.2
40°	1019.3	1023.0	1031.1	1040.0	1044.3
42.5°	965.4	969.7	974.5	986.7	990.6
45°	911.5	913.1	919.1	931.3	936.7
47.5°	851.8	856.7	861.9	872.6	875.9
50°	792.1	797.4	800.7	810.1	816.5
52.5°	731.8	736.7	740.4	746.2	752.6
55°	665.8	670.4	676.4	682.8	684.4
57.5°	598.5	603.7	607.6	614.4	621.4
60°	526.4	532.4	537.6	544.0	551.0
62.5°	459.3	461.9	467.3	477.9	488.0
65°	395.2	398.5	399.5	405.5	415.5
67.5°	341.9	341.9	337.0	339.2	350.4
70°	285.9	283.7	280.1	277.9	287.0
72.5°	240.5	237.8	229.9	226.2	231.0
75°	195.2	192.5	183.9	179.7	180.2
77.5°	156.8	152.5	145.6	138.2	136.6
80°	119.0	117.3	110.5	103.5	98.1
82.5°	84.3	80.6	76.8	72.5	68.2
85°	50.6	49.6	45.9	43.2	39.5
87.5°	20.7	20.7	19.8	18.6	17.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)