

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: P1050398

Luminaire Tested: PTR-14-40-PR1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-40-PR1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

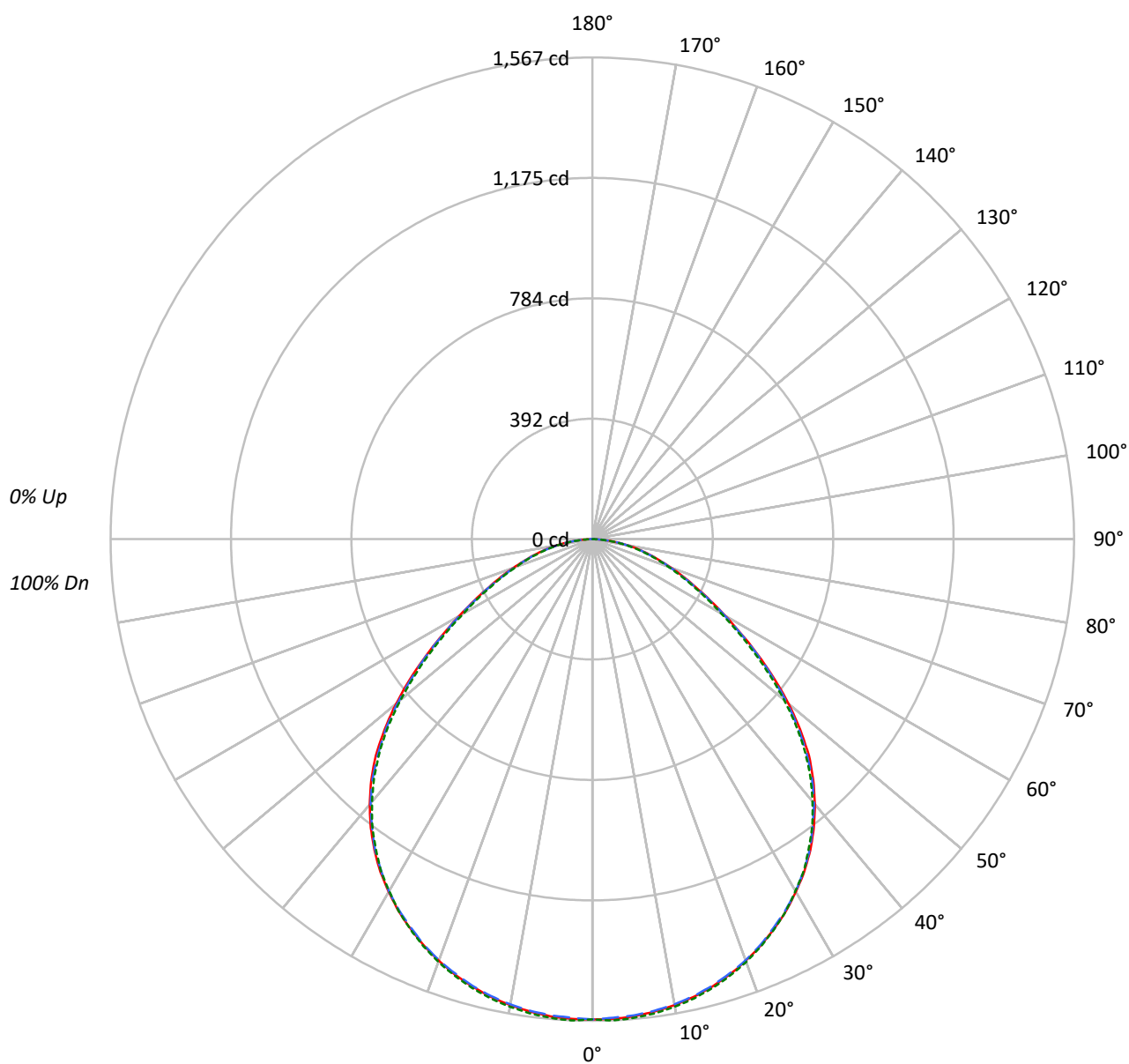
Lumens per Lamp: N/A
Luminaire Lumens: 3952.4 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4205	4205	4205
5°	4209	4200	4223
10°	4206	4199	4221
15°	4198	4192	4211
20°	4180	4175	4192
25°	4153	4143	4158
30°	4116	4111	4106
35°	4060	4050	4033
40°	3957	3941	3914
45°	3792	3749	3722
50°	3489	3450	3407
55°	3088	3074	3014
60°	2683	2674	2602
65°	2365	2351	2304
70°	2146	2115	2072
75°	1987	1940	1905
80°	1813	1788	1728
85°	1433	1420	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3792 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.8
10°-20°	425.5	10.8
20°-30°	644.6	16.3
30°-40°	769.5	19.5
40°-50°	756.8	19.1
50°-60°	584.9	14.8
60°-70°	368.8	9.3
70°-80°	199.5	5.0
80°-90°	54.5	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°	1218.4	30.8
0°-40°	1987.9	50.3
0°-60°	3329.6	84.2
0°-90°	3952.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3952.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1558	1559	1555	1562	1563	148
15°	1507	1507	1505	1510	1512	425
25°	1399	1400	1395	1400	1400	645
35°	1236	1236	1233	1231	1228	772
45°	996	993	985	978	978	763
55°	658	664	655	645	642	591
65°	371	372	369	363	362	374
75°	191	189	187	188	183	203
85°	46	47	46	46	44	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1562.8	1562.8	1562.8	1562.8	1562.8
2.5°	1562.2	1562.8	1558.3	1565.7	1567.3
5°	1558.3	1559.0	1554.9	1561.6	1563.4
7.5°	1550.4	1551.6	1547.8	1554.5	1556.1
10°	1539.2	1540.4	1536.6	1543.3	1544.9
12.5°	1525.4	1525.8	1522.5	1528.6	1530.3
15°	1506.9	1507.3	1504.6	1509.5	1511.7
17.5°	1485.5	1486.1	1482.2	1488.3	1489.4
20°	1459.8	1460.3	1458.0	1463.1	1463.7
22.5°	1431.1	1432.4	1428.9	1433.4	1434.0
25°	1398.8	1399.8	1395.3	1399.8	1400.4
27.5°	1364.6	1365.0	1361.1	1364.6	1364.0
30°	1324.7	1328.2	1323.1	1321.9	1321.5
32.5°	1283.4	1283.8	1278.9	1277.7	1279.9
35°	1235.8	1236.2	1232.9	1231.3	1227.8
37.5°	1183.7	1183.7	1177.4	1176.3	1175.7
40°	1126.5	1125.9	1122.0	1118.1	1114.1
42.5°	1064.2	1065.4	1057.5	1050.8	1049.8
45°	996.4	992.6	985.2	977.5	978.1
47.5°	916.4	917.5	907.5	901.2	899.6
50°	833.4	833.4	824.1	817.3	813.9
52.5°	746.7	747.3	738.4	729.4	727.6
55°	658.2	663.7	655.3	644.7	642.5
57.5°	575.3	579.8	571.9	560.7	560.1
60°	498.6	499.0	496.8	486.2	483.4
62.5°	433.1	430.2	429.0	423.5	420.1
65°	371.4	372.0	369.2	362.9	361.9
67.5°	321.6	321.0	315.9	312.0	309.8
70°	272.7	271.1	268.8	265.6	263.4
72.5°	229.2	229.2	227.3	226.3	222.4
75°	191.1	188.9	186.6	187.6	183.2
77.5°	154.7	152.4	150.6	148.4	147.3
80°	117.0	114.8	115.4	111.9	111.5
82.5°	81.2	81.2	80.2	77.3	77.9
85°	46.4	47.0	46.0	46.4	44.2
87.5°	16.9	17.3	18.5	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)