

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: P1050153

Luminaire Tested: PTR-14-40-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-40-PB1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

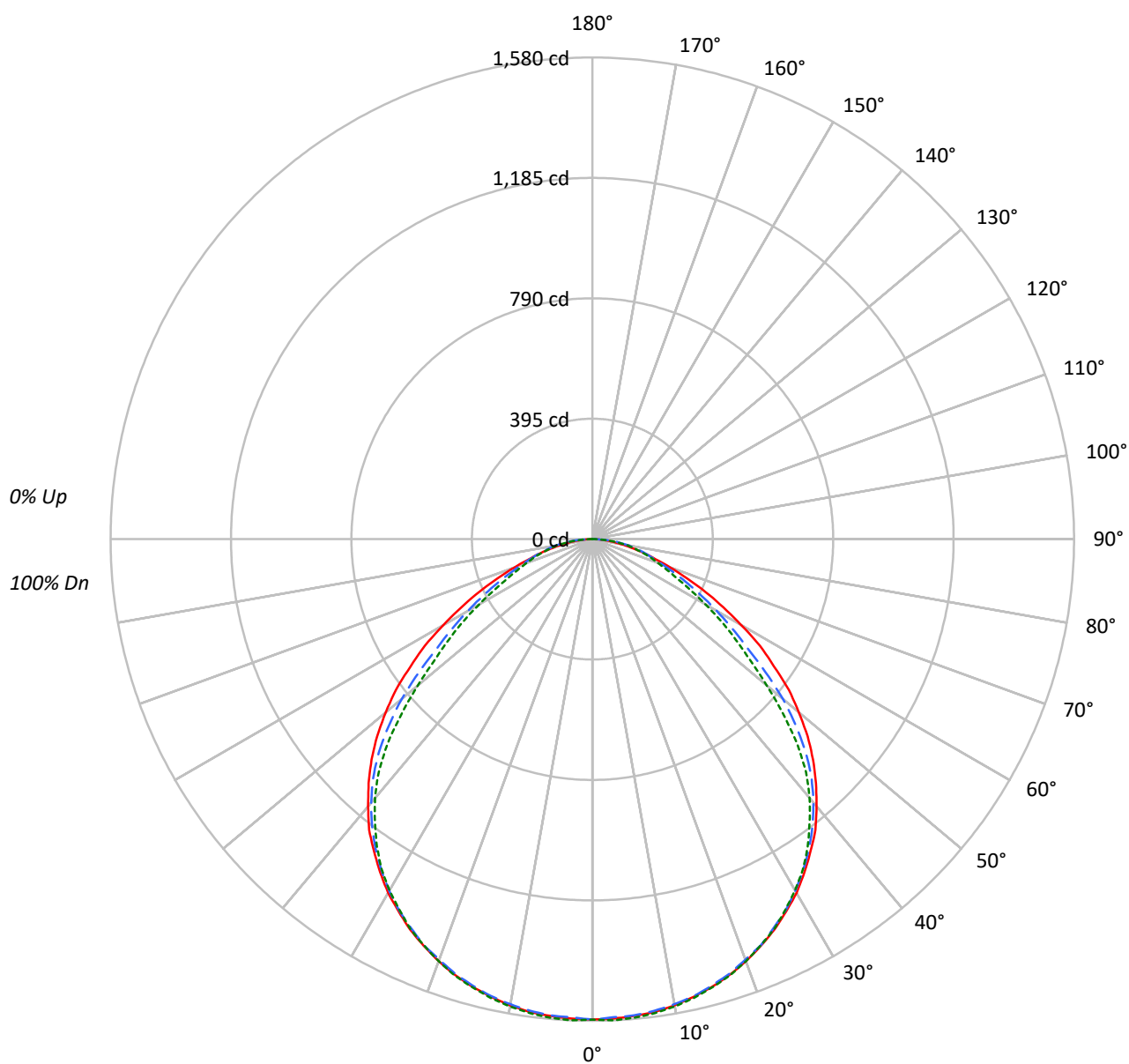
Lumens per Lamp: N/A
Luminaire Lumens: 3930.2 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4241	4241	4241
5°	4242	4237	4257
10°	4243	4233	4254
15°	4235	4224	4240
20°	4219	4203	4219
25°	4196	4179	4190
30°	4163	4139	4132
35°	4101	4070	4045
40°	4018	3964	3895
45°	3895	3770	3615
50°	3701	3417	3124
55°	3411	2902	2692
60°	3037	2536	2306
65°	2605	2198	1963
70°	2150	1938	1800
75°	1813	1854	1754
80°	1533	1892	1804
85°	1201	1917	1677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3895 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	3.8
10°-20°	428.8	10.9
20°-30°	649.6	16.5
30°-40°	774.0	19.7
40°-50°	756.9	19.3
50°-60°	572.5	14.6
60°-70°	351.7	8.9
70°-80°	187.4	4.8
80°-90°	59.8	1.5
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°	1227.8	31.2
0°-40°	2001.9	50.9
0°-60°	3331.3	84.8
0°-90°	3930.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3930.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1570	1572	1568	1574	1576	149
15°	1520	1522	1516	1522	1522	429
25°	1413	1411	1407	1410	1411	651
35°	1248	1247	1239	1233	1231	781
45°	1024	1018	991	958	950	787
55°	727	690	618	584	574	651
65°	409	376	345	318	308	407
75°	174	176	178	173	169	187
85°	39	50	62	58	54	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.1	1576.1	1576.1	1576.1	1576.1
2.5°	1574.3	1576.1	1570.2	1578.2	1580.0
5°	1570.2	1572.3	1568.4	1574.3	1576.1
7.5°	1564.5	1564.5	1560.7	1566.4	1568.4
10°	1552.9	1552.9	1549.1	1554.8	1556.8
12.5°	1537.5	1537.5	1535.4	1539.3	1541.3
15°	1520.0	1521.8	1516.1	1521.8	1521.8
17.5°	1498.6	1496.8	1494.7	1498.6	1500.6
20°	1473.4	1473.4	1467.7	1471.5	1473.4
22.5°	1444.3	1444.3	1442.4	1444.3	1442.4
25°	1413.3	1411.3	1407.4	1409.5	1411.3
27.5°	1376.5	1376.5	1372.6	1372.6	1370.6
30°	1339.6	1337.6	1331.9	1328.0	1329.9
32.5°	1295.1	1293.0	1287.3	1283.5	1285.3
35°	1248.5	1246.6	1238.9	1233.0	1231.2
37.5°	1202.1	1196.2	1186.4	1178.6	1170.9
40°	1143.8	1137.9	1128.4	1110.9	1108.8
42.5°	1085.6	1079.9	1064.3	1043.1	1037.2
45°	1023.6	1017.9	990.6	957.6	949.9
47.5°	957.6	948.0	905.3	864.6	849.1
50°	884.1	866.6	816.2	763.9	746.3
52.5°	812.3	781.4	715.4	668.8	651.5
55°	727.0	690.2	618.5	583.5	573.8
57.5°	651.5	601.0	542.8	508.0	500.3
60°	564.2	517.6	471.2	440.0	428.4
62.5°	484.6	443.9	405.2	378.0	364.5
65°	409.1	376.1	345.2	317.9	308.3
67.5°	335.4	317.9	292.7	271.5	265.6
70°	273.3	263.6	246.3	236.5	228.8
72.5°	217.2	221.0	209.4	205.6	199.7
75°	174.4	176.5	178.3	172.6	168.7
77.5°	131.9	141.5	149.2	145.3	141.5
80°	98.9	108.5	122.1	116.4	116.4
82.5°	67.8	79.6	91.2	87.3	85.3
85°	38.9	50.5	62.1	58.2	54.3
87.5°	15.5	25.2	27.1	27.1	25.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)