

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: P1050963

Luminaire Tested: 24PTR-40-PR1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050963
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: 24PTR-40-PR1-L850-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

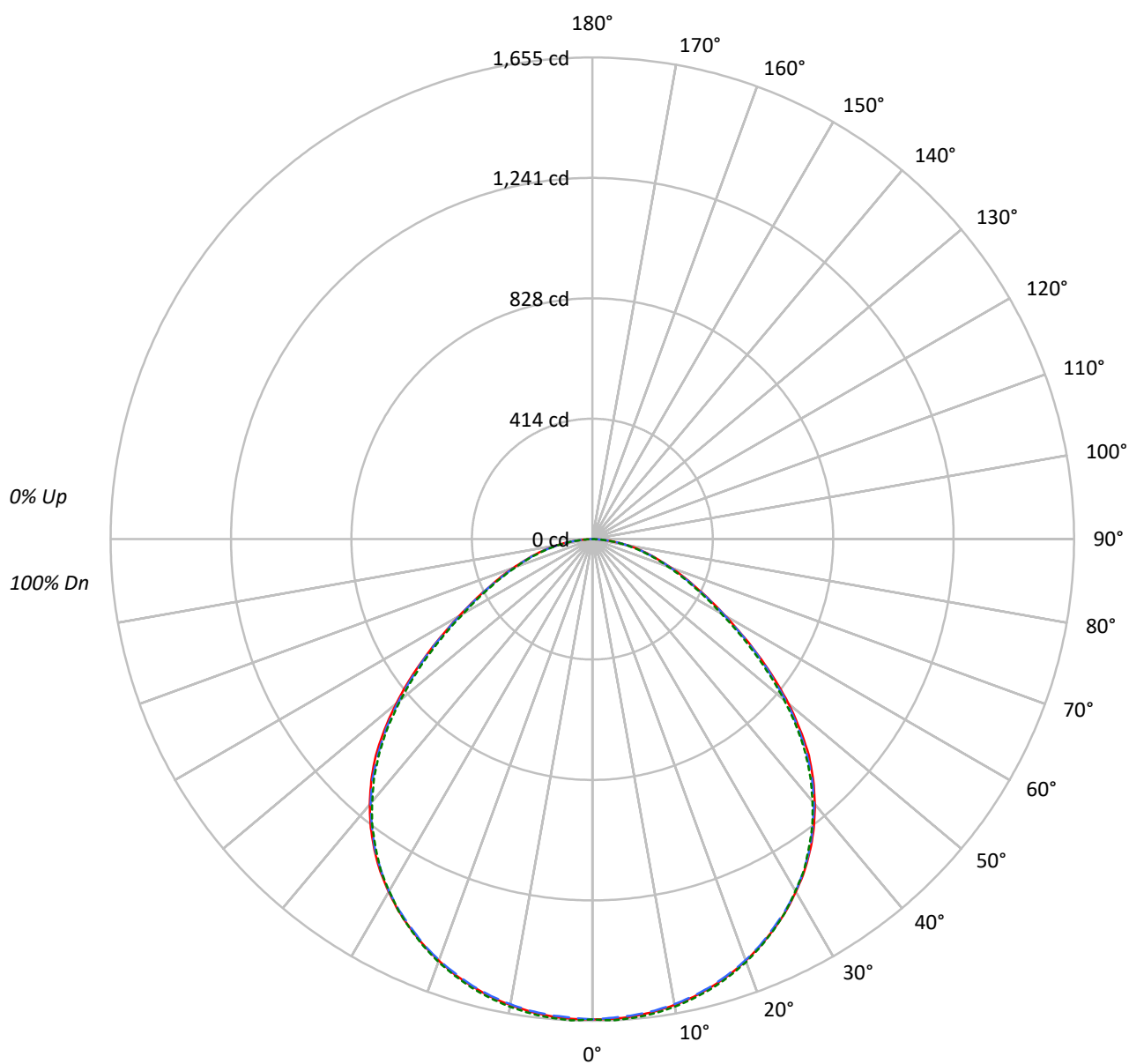
Lumens per Lamp: N/A
Luminaire Lumens: 4173.9 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	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	45	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	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2221	2221	2221
5°	2223	2218	2230
10°	2221	2217	2229
15°	2217	2213	2224
20°	2207	2205	2213
25°	2193	2188	2196
30°	2174	2171	2168
35°	2144	2139	2130
40°	2089	2081	2066
45°	2002	1980	1965
50°	1842	1822	1799
55°	1631	1624	1592
60°	1417	1412	1374
65°	1249	1241	1216
70°	1133	1117	1094
75°	1049	1025	1005
80°	958	945	913
85°	756	750	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2002 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.8
10°-20°	449.4	10.8
20°-30°	680.7	16.3
30°-40°	812.7	19.5
40°-50°	799.2	19.1
50°-60°	617.7	14.8
60°-70°	389.5	9.3
70°-80°	210.7	5.0
80°-90°	57.6	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°	1286.6	30.8
0°-40°	2099.3	50.3
0°-60°	3516.2	84.2
0°-90°	4173.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4173.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1646	1646	1642	1649	1651	156
15°	1591	1592	1589	1594	1596	449
25°	1477	1478	1474	1478	1479	681
35°	1305	1306	1302	1300	1297	815
45°	1052	1048	1040	1032	1033	806
55°	695	701	692	681	678	624
65°	392	393	390	383	382	395
75°	202	200	197	198	193	214
85°	49	50	49	49	47	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.4	1650.4	1650.4	1650.4	1650.4
2.5°	1649.8	1650.4	1645.7	1653.4	1655.2
5°	1645.7	1646.3	1642.0	1649.1	1651.1
7.5°	1637.3	1638.6	1634.5	1641.6	1643.3
10°	1625.5	1626.8	1622.7	1629.8	1631.5
12.5°	1610.9	1611.3	1607.9	1614.3	1616.0
15°	1591.3	1591.8	1589.0	1594.1	1596.5
17.5°	1568.8	1569.4	1565.3	1571.8	1572.8
20°	1541.7	1542.1	1539.7	1545.1	1545.8
22.5°	1511.4	1512.7	1509.0	1513.7	1514.4
25°	1477.2	1478.3	1473.5	1478.3	1478.9
27.5°	1441.1	1441.5	1437.4	1441.1	1440.4
30°	1399.0	1402.6	1397.2	1396.0	1395.5
32.5°	1355.3	1355.8	1350.6	1349.3	1351.7
35°	1305.0	1305.5	1302.0	1300.3	1296.7
37.5°	1250.0	1250.0	1243.4	1242.3	1241.6
40°	1189.6	1189.0	1184.9	1180.8	1176.5
42.5°	1123.9	1125.1	1116.8	1109.7	1108.6
45°	1052.3	1048.2	1040.5	1032.3	1032.9
47.5°	967.8	968.9	958.4	951.7	950.0
50°	880.1	880.1	870.2	863.1	859.5
52.5°	788.6	789.2	779.8	770.3	768.4
55°	695.1	700.9	692.1	680.9	678.5
57.5°	607.6	612.3	603.9	592.1	591.5
60°	526.6	527.0	524.6	513.5	510.5
62.5°	457.4	454.4	453.1	447.3	443.6
65°	392.2	392.9	389.9	383.2	382.1
67.5°	339.6	338.9	333.6	329.5	327.1
70°	288.0	286.3	283.9	280.5	278.1
72.5°	242.0	242.0	240.1	239.0	234.9
75°	201.8	199.5	197.1	198.2	193.4
77.5°	163.3	161.0	159.0	156.7	155.6
80°	123.6	121.2	121.9	118.2	117.8
82.5°	85.8	85.8	84.7	81.7	82.3
85°	49.0	49.6	48.6	49.0	46.6
87.5°	17.8	18.3	19.6	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)