

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: P1050930

Luminaire Tested: 24PTR-40-PR1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050930
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-L830-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

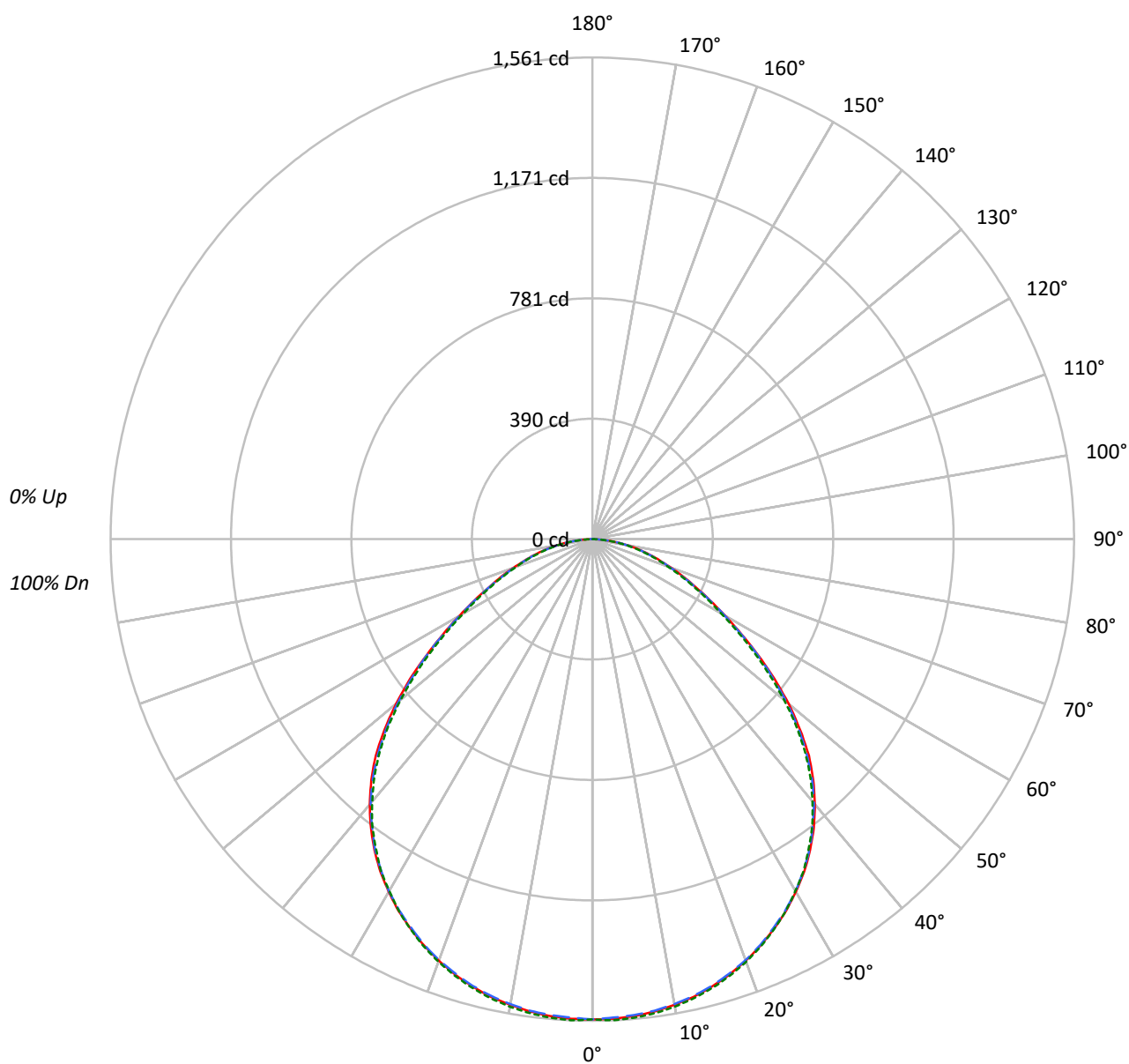
Lumens per Lamp: N/A
Luminaire Lumens: 3936.3 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2094	2094	2094
5°	2096	2092	2103
10°	2094	2091	2102
15°	2090	2087	2097
20°	2082	2079	2087
25°	2068	2063	2071
30°	2050	2047	2045
35°	2021	2017	2008
40°	1971	1963	1949
45°	1888	1867	1854
50°	1737	1718	1697
55°	1538	1531	1501
60°	1336	1331	1295
65°	1178	1171	1147
70°	1068	1054	1032
75°	989	966	948
80°	903	890	861
85°	713	707	679

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.8
10°-20°	423.8	10.8
20°-30°	642.0	16.3
30°-40°	766.4	19.5
40°-50°	753.7	19.1
50°-60°	582.5	14.8
60°-70°	367.3	9.3
70°-80°	198.7	5.0
80°-90°	54.3	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°	1213.4	30.8
0°-40°	1979.8	50.3
0°-60°	3316.0	84.2
0°-90°	3936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1552	1553	1549	1555	1557	148
15°	1501	1501	1498	1503	1506	424
25°	1393	1394	1390	1394	1395	642
35°	1231	1231	1228	1226	1223	768
45°	992	988	981	974	974	760
55°	656	661	653	642	640	588
65°	370	370	368	361	360	372
75°	190	188	186	187	182	202
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°	1556.5	1556.5	1556.5	1556.5	1556.5
2.5°	1555.8	1556.5	1552.0	1559.3	1560.9
5°	1552.0	1552.6	1548.6	1555.2	1557.1
7.5°	1544.1	1545.3	1541.5	1548.1	1549.8
10°	1532.9	1534.2	1530.3	1537.0	1538.6
12.5°	1519.2	1519.6	1516.3	1522.4	1524.0
15°	1500.7	1501.1	1498.5	1503.4	1505.6
17.5°	1479.4	1480.0	1476.2	1482.3	1483.3
20°	1453.9	1454.3	1452.1	1457.1	1457.7
22.5°	1425.3	1426.5	1423.1	1427.5	1428.2
25°	1393.1	1394.1	1389.6	1394.1	1394.7
27.5°	1359.0	1359.4	1355.6	1359.0	1358.4
30°	1319.3	1322.8	1317.7	1316.5	1316.1
32.5°	1278.2	1278.6	1273.7	1272.5	1274.7
35°	1230.7	1231.1	1227.9	1226.3	1222.8
37.5°	1178.8	1178.8	1172.6	1171.5	1170.9
40°	1121.9	1121.3	1117.4	1113.6	1109.5
42.5°	1059.9	1061.1	1053.2	1046.5	1045.5
45°	992.4	988.5	981.2	973.5	974.1
47.5°	912.7	913.7	903.8	897.5	895.9
50°	830.0	830.0	820.7	814.0	810.6
52.5°	743.7	744.3	735.4	726.4	724.6
55°	655.5	661.0	652.7	642.1	639.9
57.5°	573.0	577.5	569.6	558.4	557.8
60°	496.6	497.0	494.8	484.2	481.4
62.5°	431.3	428.5	427.3	421.8	418.4
65°	369.9	370.5	367.7	361.4	360.4
67.5°	320.3	319.6	314.6	310.7	308.5
70°	271.6	270.0	267.8	264.5	262.3
72.5°	228.2	228.2	226.4	225.4	221.5
75°	190.3	188.1	185.9	186.9	182.4
77.5°	154.0	151.8	150.0	147.8	146.7
80°	116.5	114.3	114.9	111.5	111.1
82.5°	80.9	80.9	79.9	77.0	77.6
85°	46.2	46.8	45.8	46.2	44.0
87.5°	16.8	17.2	18.4	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)