

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: P1050577

Luminaire Tested: 24PTR-35-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050577
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: 24PTR-35-PB1-L850-UNV-STD-W
Description: 3500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

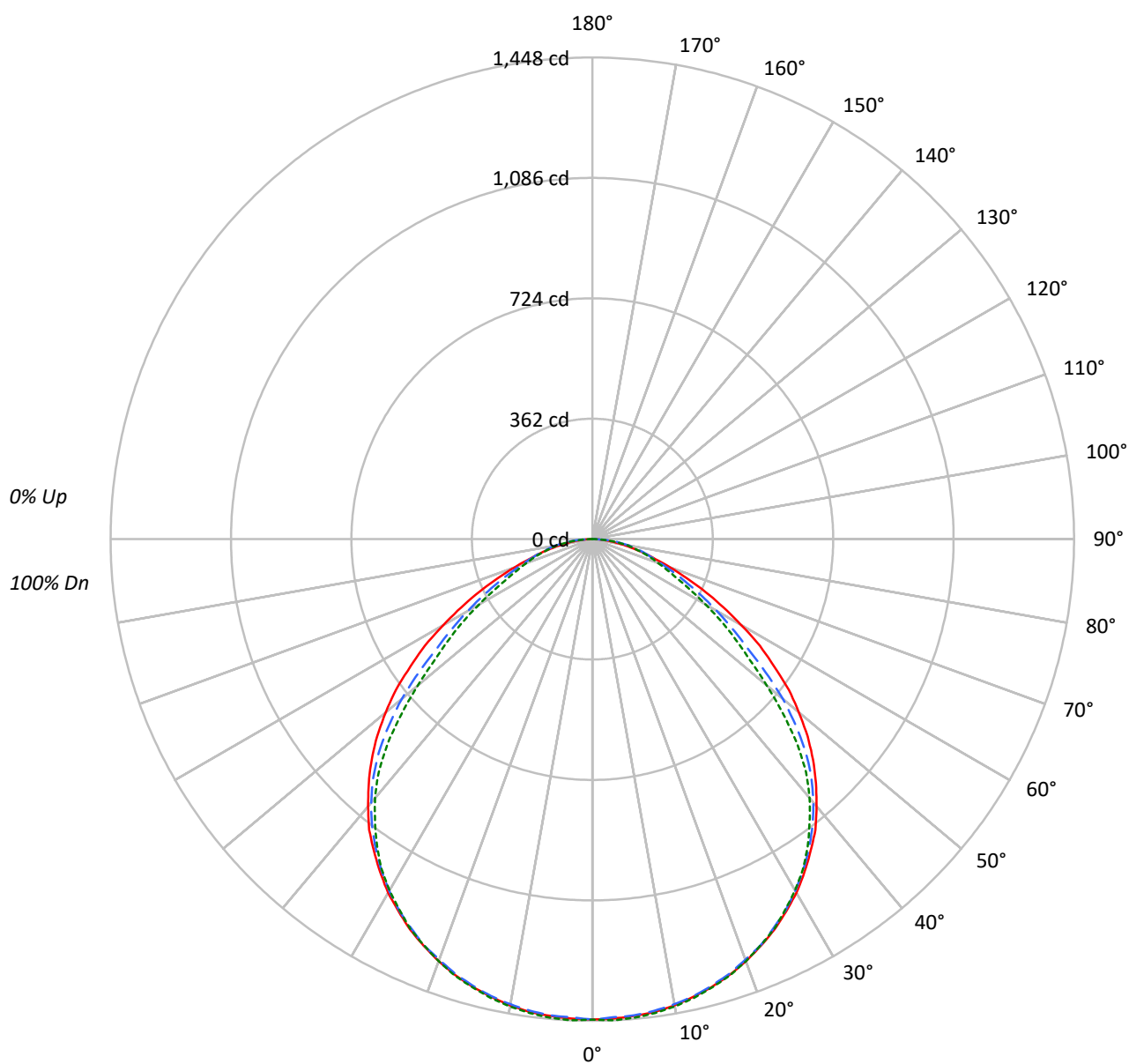
Lumens per Lamp: N/A
Luminaire Lumens: 3601.6 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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

TEST NUMBER: P1050577

CATALOG NUMBER: 24PTR-35-PB1-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050577

CATALOG NUMBER: 24PTR-35-PB1-L850-UNV-STD-W

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°	1943	1943	1943
5°	1944	1941	1951
10°	1944	1940	1949
15°	1940	1935	1943
20°	1933	1926	1933
25°	1923	1915	1920
30°	1907	1896	1893
35°	1879	1865	1853
40°	1841	1816	1785
45°	1785	1727	1656
50°	1696	1566	1432
55°	1563	1330	1233
60°	1391	1162	1056
65°	1194	1007	900
70°	985	888	825
75°	831	849	804
80°	702	867	827
85°	550	878	769

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1785 cd/sqm

TEST NUMBER: P1050577

CATALOG NUMBER: 24PTR-35-PB1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.8
10°-20°	393.0	10.9
20°-30°	595.3	16.5
30°-40°	709.3	19.7
40°-50°	693.6	19.3
50°-60°	524.6	14.6
60°-70°	322.3	8.9
70°-80°	171.7	4.8
80°-90°	54.8	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°	1125.2	31.2
0°-40°	1834.5	50.9
0°-60°	3052.8	84.8
0°-90°	3601.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3601.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1439	1441	1437	1443	1444	137
15°	1393	1395	1389	1395	1395	393
25°	1295	1293	1290	1292	1293	596
35°	1144	1142	1135	1130	1128	716
45°	938	933	908	878	870	722
55°	666	632	567	535	526	597
65°	375	345	316	291	283	373
75°	160	162	163	158	155	171
85°	36	46	57	53	50	43
90°	0	0	0	0	0	

TEST NUMBER: P1050577

CATALOG NUMBER: 24PTR-35-PB1-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.4	1444.4	1444.4	1444.4	1444.4
2.5°	1442.7	1444.4	1439.0	1446.2	1447.9
5°	1439.0	1440.8	1437.3	1442.7	1444.4
7.5°	1433.7	1433.7	1430.2	1435.4	1437.3
10°	1423.1	1423.1	1419.6	1424.8	1426.7
12.5°	1408.9	1408.9	1407.1	1410.6	1412.5
15°	1392.9	1394.6	1389.3	1394.6	1394.6
17.5°	1373.3	1371.6	1369.8	1373.3	1375.2
20°	1350.2	1350.2	1345.0	1348.5	1350.2
22.5°	1323.5	1323.5	1321.8	1323.5	1321.8
25°	1295.2	1293.3	1289.8	1291.6	1293.3
27.5°	1261.4	1261.4	1257.9	1257.9	1256.0
30°	1227.6	1225.8	1220.6	1217.0	1218.7
32.5°	1186.8	1184.9	1179.7	1176.2	1177.8
35°	1144.1	1142.4	1135.3	1129.9	1128.2
37.5°	1101.6	1096.1	1087.2	1080.1	1073.0
40°	1048.2	1042.8	1034.0	1018.0	1016.1
42.5°	994.9	989.6	975.3	955.9	950.5
45°	938.0	932.8	907.8	877.6	870.5
47.5°	877.6	868.8	829.6	792.3	778.1
50°	810.2	794.2	747.9	700.0	683.9
52.5°	744.4	716.0	655.6	612.9	597.0
55°	666.2	632.5	566.8	534.7	525.8
57.5°	597.0	550.8	497.4	465.5	458.5
60°	517.0	474.3	431.8	403.2	392.6
62.5°	444.1	406.8	371.4	346.4	334.0
65°	374.9	344.7	316.3	291.3	282.6
67.5°	307.4	291.3	268.2	248.8	243.4
70°	250.5	241.5	225.7	216.7	209.6
72.5°	199.0	202.6	191.9	188.4	183.0
75°	159.8	161.7	163.4	158.2	154.6
77.5°	120.9	129.6	136.7	133.2	129.6
80°	90.6	99.4	111.9	106.7	106.7
82.5°	62.1	72.9	83.6	80.0	78.1
85°	35.6	46.3	56.9	53.3	49.8
87.5°	14.2	23.1	24.8	24.8	23.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)