

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: P1050589

Luminaire Tested: 24PTR-40-PB1-L930-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050589
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-40-PB1-L930-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

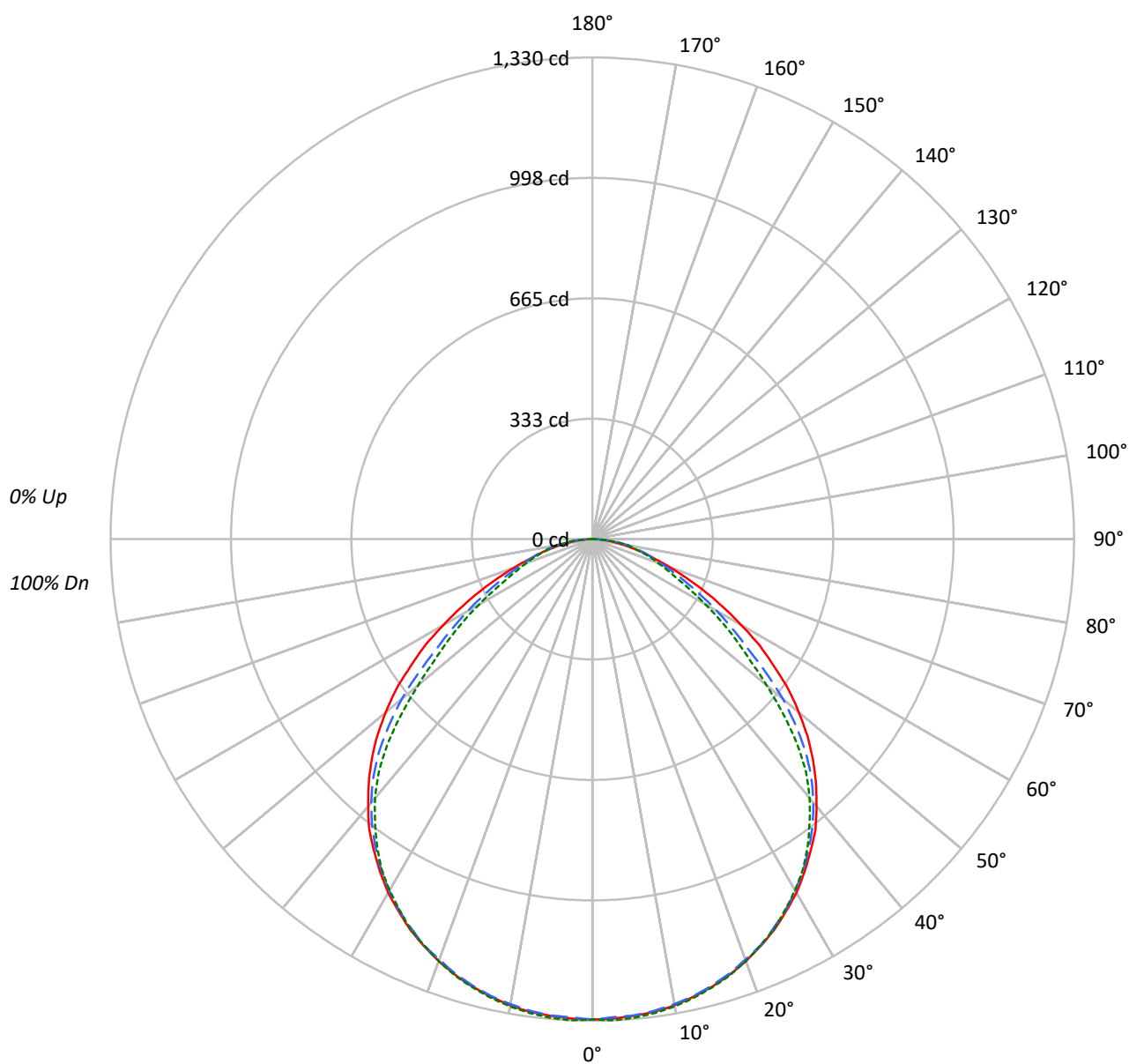
Lumens per Lamp: N/A
Luminaire Lumens: 3307.7 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1785	1785	1785
5°	1785	1783	1792
10°	1786	1781	1790
15°	1782	1777	1784
20°	1775	1769	1775
25°	1766	1758	1763
30°	1752	1741	1739
35°	1726	1713	1702
40°	1691	1668	1639
45°	1639	1586	1521
50°	1558	1438	1315
55°	1435	1221	1133
60°	1278	1067	970
65°	1096	925	826
70°	905	816	757
75°	763	780	738
80°	645	797	759
85°	505	806	706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1639 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.8
10°-20°	360.9	10.9
20°-30°	546.7	16.5
30°-40°	651.4	19.7
40°-50°	637.0	19.3
50°-60°	481.8	14.6
60°-70°	296.0	8.9
70°-80°	157.7	4.8
80°-90°	50.3	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°	1033.4	31.2
0°-40°	1684.8	50.9
0°-60°	2803.6	84.8
0°-90°	3307.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1322	1323	1320	1325	1326	126
15°	1279	1281	1276	1281	1281	361
25°	1190	1188	1184	1186	1188	548
35°	1051	1049	1043	1038	1036	657
45°	861	857	834	806	799	663
55°	612	581	521	491	483	548
65°	344	317	290	268	260	343
75°	147	148	150	145	142	157
85°	33	42	52	49	46	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.5	1326.5	1326.5	1326.5	1326.5
2.5°	1325.0	1326.5	1321.5	1328.2	1329.8
5°	1321.5	1323.2	1320.0	1325.0	1326.5
7.5°	1316.7	1316.7	1313.5	1318.3	1320.0
10°	1307.0	1307.0	1303.7	1308.5	1310.2
12.5°	1294.0	1294.0	1292.2	1295.5	1297.2
15°	1279.2	1280.8	1276.0	1280.8	1280.8
17.5°	1261.2	1259.7	1258.0	1261.2	1263.0
20°	1240.0	1240.0	1235.2	1238.5	1240.0
22.5°	1215.5	1215.5	1214.0	1215.5	1214.0
25°	1189.5	1187.8	1184.5	1186.2	1187.8
27.5°	1158.5	1158.5	1155.2	1155.2	1153.5
30°	1127.5	1125.7	1120.9	1117.7	1119.2
32.5°	1089.9	1088.2	1083.4	1080.2	1081.7
35°	1050.7	1049.2	1042.7	1037.7	1036.2
37.5°	1011.7	1006.7	998.5	992.0	985.5
40°	962.7	957.7	949.7	934.9	933.2
42.5°	913.7	908.9	895.7	877.9	872.9
45°	861.4	856.6	833.7	805.9	799.4
47.5°	805.9	797.9	761.9	727.7	714.6
50°	744.1	729.4	686.9	642.9	628.1
52.5°	683.6	657.6	602.1	562.9	548.3
55°	611.9	580.9	520.6	491.1	482.9
57.5°	548.3	505.8	456.8	427.6	421.0
60°	474.8	435.6	396.5	370.3	360.6
62.5°	407.9	373.6	341.0	318.1	306.8
65°	344.3	316.6	290.5	267.6	259.5
67.5°	282.3	267.6	246.3	228.5	223.5
70°	230.0	221.8	207.3	199.0	192.5
72.5°	182.8	186.0	176.3	173.0	168.0
75°	146.8	148.5	150.1	145.3	142.0
77.5°	111.0	119.0	125.6	122.3	119.0
80°	83.2	91.3	102.8	98.0	98.0
82.5°	57.0	67.0	76.7	73.5	71.8
85°	32.7	42.5	52.2	49.0	45.7
87.5°	13.0	21.2	22.8	22.8	21.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)