

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: P1050787

Luminaire Tested: 24PTR-40-PLG-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40-PLG-L835-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

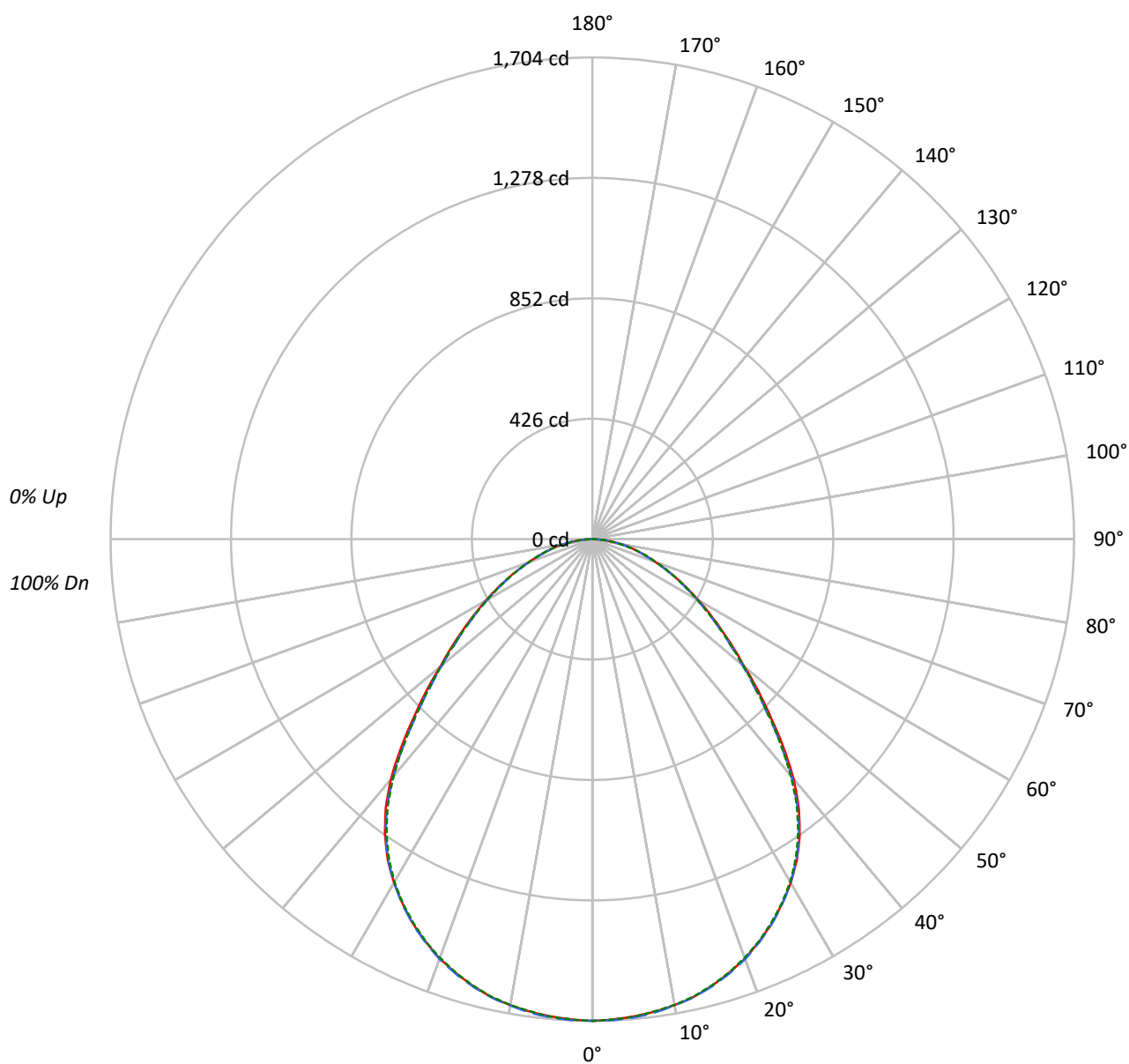
Lumens per Lamp: N/A
Luminaire Lumens: 3840.5 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2293	2293	2293
5°	2289	2294	2291
10°	2287	2289	2286
15°	2278	2282	2277
20°	2260	2264	2257
25°	2229	2230	2223
30°	2180	2180	2174
35°	2100	2094	2084
40°	1946	1925	1919
45°	1701	1673	1680
50°	1469	1451	1459
55°	1305	1285	1288
60°	1169	1152	1152
65°	1047	1040	1044
70°	942	933	942
75°	874	861	874
80°	815	806	778
85°	692	692	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	4.2
10°-20°	461.7	12.0
20°-30°	690.9	18.0
30°-40°	791.6	20.6
40°-50°	684.6	17.8
50°-60°	495.5	12.9
60°-70°	326.3	8.5
70°-80°	177.6	4.6
80°-90°	50.9	1.3
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°	1314.0	34.2
0°-40°	2105.6	54.8
0°-60°	3285.6	85.6
0°-90°	3840.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1695	1698	1698	1698	1696	161
15°	1636	1637	1638	1640	1634	461
25°	1501	1501	1502	1504	1498	690
35°	1279	1277	1275	1274	1269	794
45°	894	892	879	878	883	692
55°	556	554	548	544	549	501
65°	329	331	327	324	328	329
75°	168	168	166	166	168	179
85°	45	45	45	46	40	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.4	1704.4	1704.4	1704.4	1704.4
2.5°	1700.8	1704.4	1703.2	1704.4	1700.8
5°	1694.7	1698.4	1698.4	1698.4	1696.0
7.5°	1686.3	1688.7	1689.9	1691.1	1685.1
10°	1674.2	1676.6	1675.4	1677.8	1673.0
12.5°	1658.5	1658.5	1659.7	1662.1	1657.2
15°	1635.5	1636.7	1637.9	1640.3	1634.3
17.5°	1608.9	1610.1	1611.3	1612.5	1607.6
20°	1578.6	1578.6	1581.0	1582.2	1576.2
22.5°	1541.1	1541.1	1543.5	1547.2	1539.9
25°	1501.2	1501.2	1502.4	1503.6	1497.6
27.5°	1454.0	1454.0	1455.2	1458.9	1451.6
30°	1403.2	1402.0	1403.2	1404.4	1399.6
32.5°	1346.4	1345.1	1343.9	1345.1	1339.1
35°	1278.6	1277.4	1275.0	1273.8	1268.9
37.5°	1200.0	1197.6	1192.7	1192.7	1187.9
40°	1108.1	1102.0	1096.0	1093.5	1092.3
42.5°	1001.6	996.8	988.3	987.1	987.1
45°	893.9	891.5	879.4	878.2	883.1
47.5°	797.2	791.1	780.2	777.8	785.1
50°	701.6	702.8	693.1	689.5	696.8
52.5°	626.6	624.2	615.7	613.3	619.3
55°	556.4	554.0	548.0	544.3	549.2
57.5°	492.3	491.1	485.1	483.9	486.3
60°	434.3	433.1	428.2	427.0	428.2
62.5°	379.8	379.8	375.0	372.6	376.2
65°	329.0	331.4	326.6	324.2	327.8
67.5°	283.1	285.5	280.6	278.2	283.1
70°	239.5	241.9	237.1	234.7	239.5
72.5°	202.0	203.2	199.6	198.4	204.4
75°	168.1	168.1	165.7	165.7	168.1
77.5°	136.7	135.5	134.3	134.3	131.9
80°	105.2	104.0	104.0	104.0	100.4
82.5°	75.0	72.6	73.8	75.0	69.0
85°	44.8	44.8	44.8	46.0	39.9
87.5°	18.1	18.1	16.9	18.1	15.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)