

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: P1050865

Luminaire Tested: 24PTR-45-PP3-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PP3-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

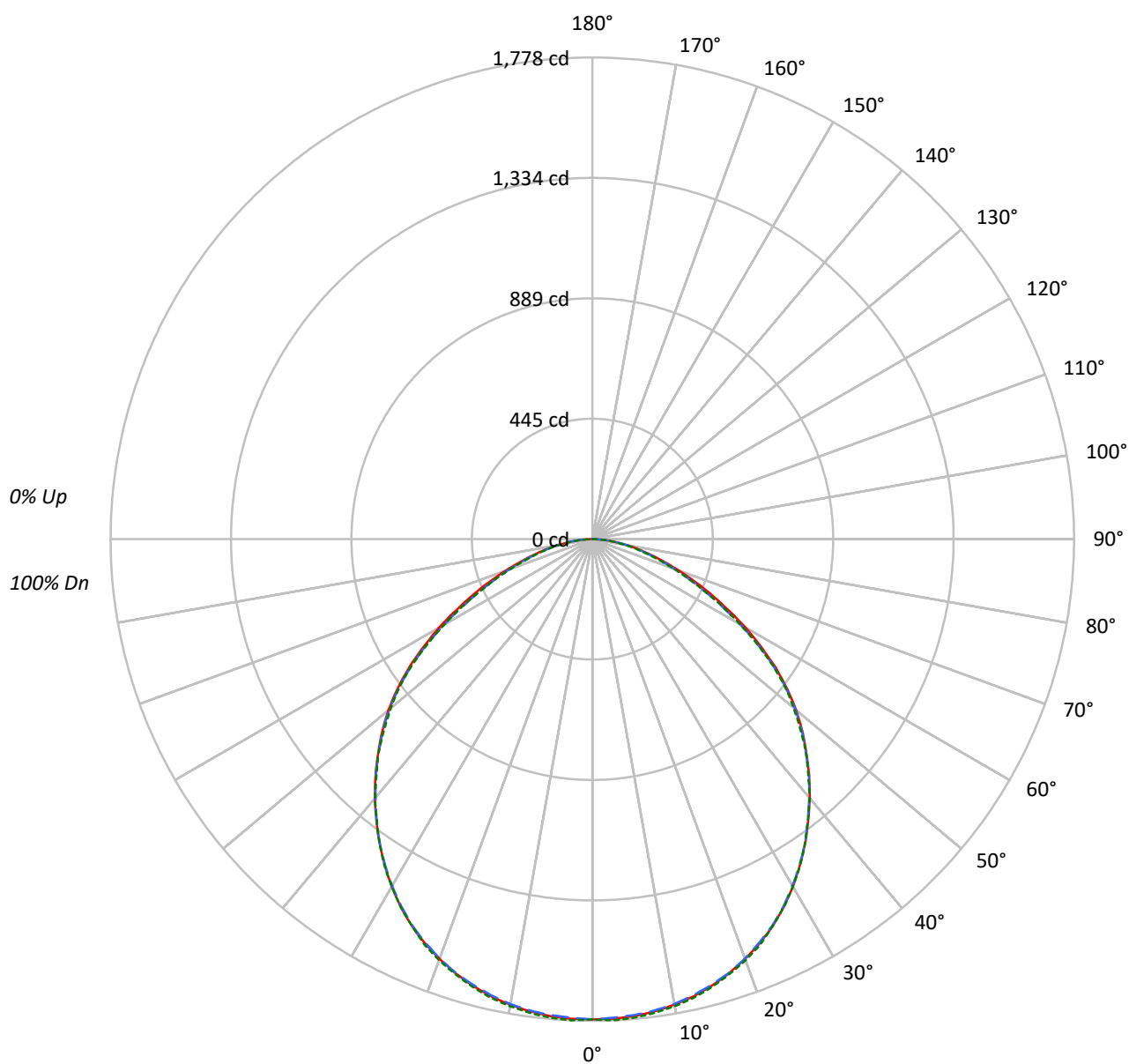
Lumens per Lamp: N/A
Luminaire Lumens: 4580.3 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2385	2385	2385
5°	2387	2382	2395
10°	2384	2381	2392
15°	2376	2372	2382
20°	2361	2359	2369
25°	2340	2336	2339
30°	2300	2295	2300
35°	2250	2247	2249
40°	2193	2186	2191
45°	2127	2120	2123
50°	2056	2046	2031
55°	1935	1913	1906
60°	1756	1697	1700
65°	1543	1465	1463
70°	1334	1273	1258
75°	1154	1111	1087
80°	1022	1007	962
85°	844	874	823

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	3.7
10°-20°	481.6	10.5
20°-30°	725.1	15.8
30°-40°	855.8	18.7
40°-50°	860.7	18.8
50°-60°	726.6	15.9
60°-70°	466.7	10.2
70°-80°	232.1	5.1
80°-90°	63.6	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°	1374.9	30.0
0°-40°	2230.7	48.7
0°-60°	3818.0	83.4
0°-90°	4580.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4580.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1773	1773	1773	1773	1773	
5°	1768	1768	1764	1772	1773	168
15°	1706	1706	1703	1710	1710	481
25°	1576	1576	1573	1576	1575	725
35°	1370	1371	1368	1369	1369	856
45°	1118	1122	1114	1116	1116	863
55°	825	824	815	812	813	734
65°	484	477	460	456	459	483
75°	222	221	214	212	209	240
85°	55	57	57	53	53	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1772.0	1772.7	1768.1	1776.5	1777.9
5°	1767.6	1768.1	1763.6	1772.0	1773.2
7.5°	1758.5	1759.2	1755.2	1762.9	1764.3
10°	1744.9	1747.0	1742.4	1749.6	1750.8
12.5°	1728.3	1729.0	1724.3	1732.8	1734.2
15°	1705.9	1706.3	1702.6	1710.3	1710.3
17.5°	1679.9	1680.6	1678.1	1684.6	1683.9
20°	1648.6	1650.5	1647.2	1651.6	1654.2
22.5°	1614.5	1615.2	1611.2	1617.0	1619.6
25°	1575.9	1576.3	1573.3	1576.3	1575.2
27.5°	1530.8	1531.9	1527.5	1530.8	1531.5
30°	1480.5	1483.8	1477.4	1480.0	1480.5
32.5°	1426.5	1428.3	1423.9	1424.6	1427.9
35°	1369.9	1370.6	1368.0	1369.2	1369.2
37.5°	1308.9	1311.4	1307.5	1309.3	1306.8
40°	1248.3	1245.7	1244.3	1245.7	1247.6
42.5°	1184.5	1185.2	1183.3	1181.9	1178.9
45°	1117.6	1121.6	1114.3	1115.7	1115.7
47.5°	1052.1	1052.6	1048.9	1044.9	1042.3
50°	982.0	982.0	977.3	974.3	970.3
52.5°	905.3	904.1	899.0	895.7	897.6
55°	824.9	824.2	815.3	812.0	812.7
57.5°	736.7	738.1	724.6	721.3	721.3
60°	652.6	646.0	630.6	626.1	631.8
62.5°	564.2	556.5	539.9	539.9	544.3
65°	484.5	477.4	460.1	455.5	459.4
67.5°	409.9	403.3	387.4	384.9	386.0
70°	339.0	333.4	323.6	317.7	319.9
72.5°	278.0	272.9	266.3	261.9	259.3
75°	221.9	220.7	213.7	211.6	209.0
77.5°	175.6	175.1	169.3	166.7	164.1
80°	131.9	131.2	130.0	126.0	124.2
82.5°	94.0	94.0	93.3	90.0	88.1
85°	54.7	56.6	56.6	53.3	53.3
87.5°	22.0	23.1	22.0	22.0	21.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)