

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: P1050556

Luminaire Tested: 24PTR-40-PB1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050556
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-L835-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

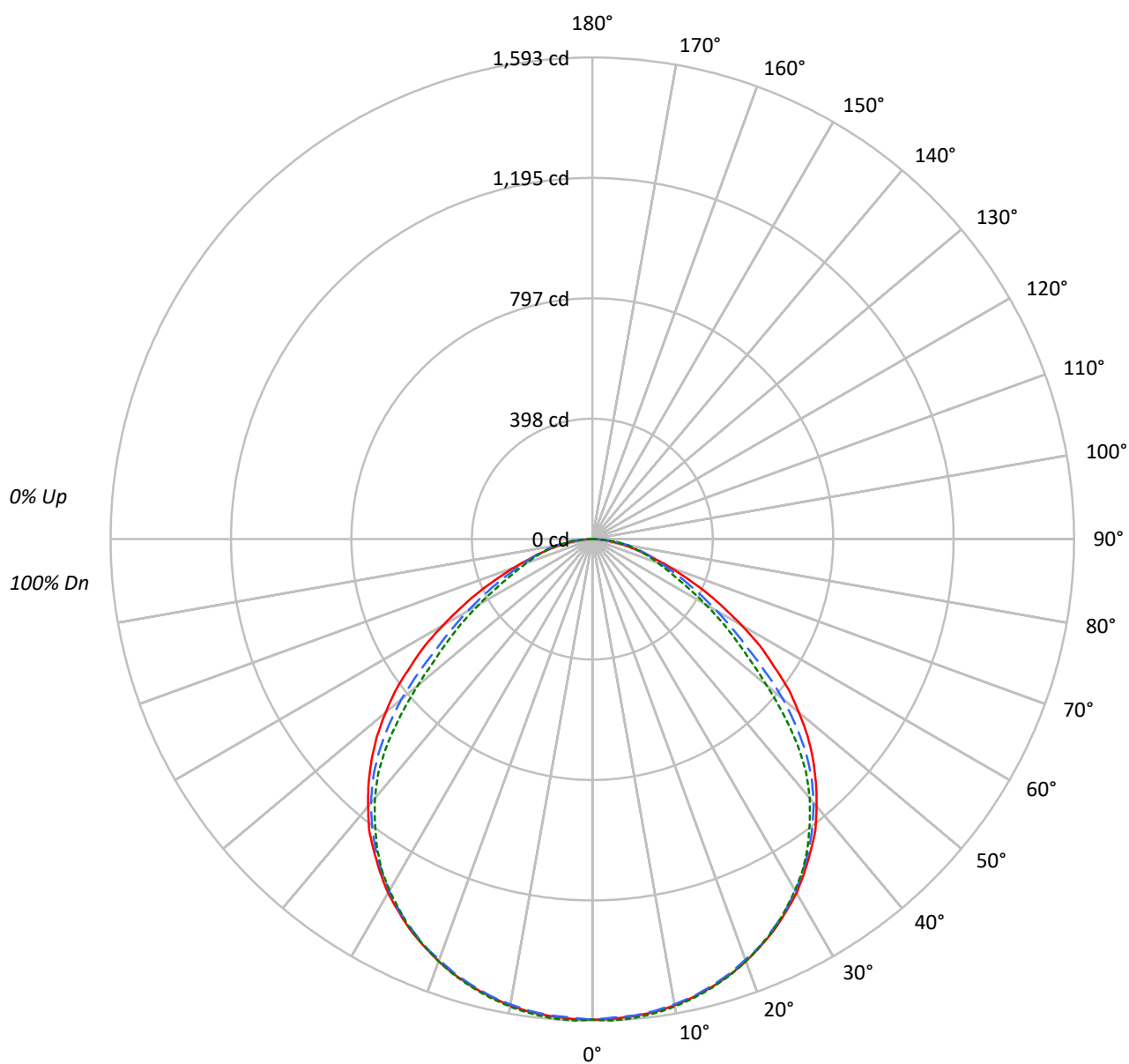
Lumens per Lamp: N/A
Luminaire Lumens: 3963.5 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2139	2139	2139
5°	2139	2136	2147
10°	2140	2134	2145
15°	2135	2130	2138
20°	2127	2119	2127
25°	2116	2107	2113
30°	2099	2087	2084
35°	2068	2052	2039
40°	2026	1999	1964
45°	1964	1901	1823
50°	1866	1723	1576
55°	1720	1463	1357
60°	1531	1279	1163
65°	1314	1108	990
70°	1085	977	908
75°	914	935	885
80°	773	955	910
85°	605	966	846

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1964 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	3.8
10°-20°	432.5	10.9
20°-30°	655.1	16.5
30°-40°	780.6	19.7
40°-50°	763.3	19.3
50°-60°	577.4	14.6
60°-70°	354.7	9.0
70°-80°	189.0	4.8
80°-90°	60.3	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°	1238.2	31.2
0°-40°	2018.8	50.9
0°-60°	3359.5	84.8
0°-90°	3963.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3963.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1584	1586	1582	1588	1590	151
15°	1533	1535	1529	1535	1535	433
25°	1425	1423	1419	1421	1423	656
35°	1259	1257	1249	1243	1242	788
45°	1032	1026	999	966	958	794
55°	733	696	624	588	579	657
65°	413	379	348	321	311	411
75°	176	178	180	174	170	189
85°	39	51	63	59	55	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.5	1589.5	1589.5	1589.5	1589.5
2.5°	1587.6	1589.5	1583.5	1591.5	1593.4
5°	1583.5	1585.6	1581.7	1587.6	1589.5
7.5°	1577.8	1577.8	1573.9	1579.6	1581.7
10°	1566.1	1566.1	1562.2	1567.9	1570.0
12.5°	1550.5	1550.5	1548.4	1552.3	1554.4
15°	1532.8	1534.7	1528.9	1534.7	1534.7
17.5°	1511.3	1509.4	1507.4	1511.3	1513.3
20°	1485.8	1485.8	1480.1	1484.0	1485.8
22.5°	1456.5	1456.5	1454.6	1456.5	1454.6
25°	1425.3	1423.2	1419.3	1421.4	1423.2
27.5°	1388.1	1388.1	1384.2	1384.2	1382.2
30°	1351.0	1348.9	1343.2	1339.3	1341.1
32.5°	1306.0	1304.0	1298.2	1294.3	1296.2
35°	1259.0	1257.2	1249.4	1243.4	1241.6
37.5°	1212.2	1206.3	1196.4	1188.6	1180.8
40°	1153.5	1147.6	1137.9	1120.3	1118.2
42.5°	1094.8	1089.1	1073.3	1051.9	1046.0
45°	1032.2	1026.5	999.0	965.7	957.9
47.5°	965.7	956.1	913.0	871.9	856.3
50°	891.6	874.0	823.1	770.3	752.7
52.5°	819.2	788.0	721.5	674.5	657.0
55°	733.2	696.0	623.8	588.5	578.6
57.5°	657.0	606.1	547.4	512.3	504.5
60°	569.0	522.0	475.2	443.8	432.1
62.5°	488.7	447.7	408.7	381.2	367.6
65°	412.6	379.3	348.1	320.6	311.0
67.5°	338.3	320.6	295.2	273.8	267.9
70°	275.7	265.8	248.4	238.5	230.7
72.5°	219.0	222.9	211.2	207.3	201.4
75°	175.9	178.0	179.8	174.1	170.2
77.5°	133.0	142.6	150.4	146.5	142.6
80°	99.8	109.4	123.2	117.4	117.4
82.5°	68.3	80.3	92.0	88.1	86.0
85°	39.2	50.9	62.6	58.7	54.8
87.5°	15.6	25.5	27.3	27.3	25.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)