

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: P1053636

Luminaire Tested: R6R4-100D-835-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: R6R4-100D-835-UNV-STD-W
Description: 4FT RIBBON LED LUMINAIRE WITH 3500K LEDS AT HI
Light Source: -
Ballast/Driver: -

Summary

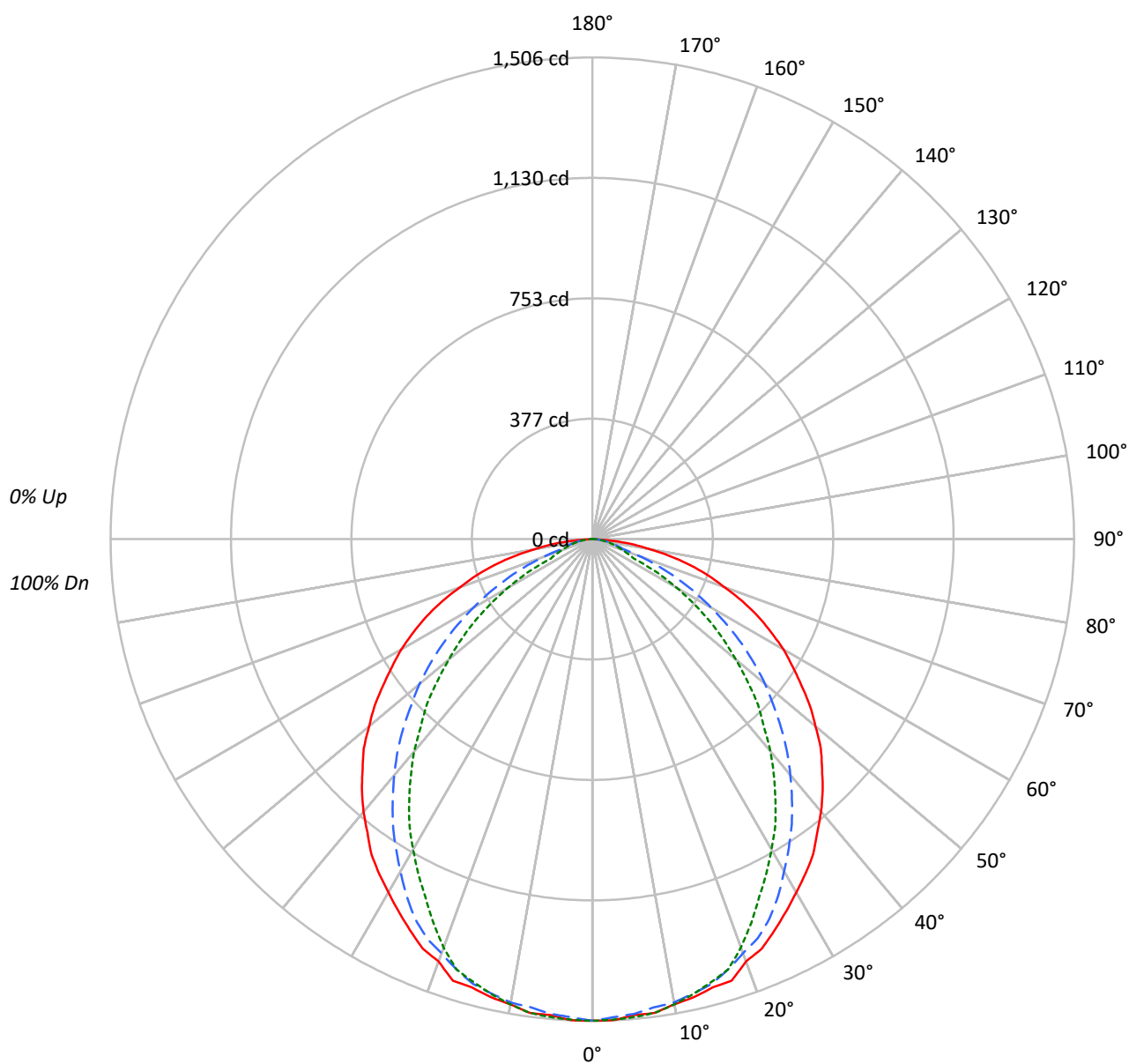
Lumens per Lamp: N/A
Luminaire Lumens: 3524.9 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1053636

CATALOG NUMBER: R6R4-100D-835-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1053636

CATALOG NUMBER: R6R4-100D-835-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	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86	84	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	72	74
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63	61	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55	53	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48	46	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42	40	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38	36	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34	32	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	30	28	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28	26	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8104	8104	8104
5°	8072	8051	8104
10°	8070	8038	8070
15°	8087	8023	7991
20°	8047	7892	7781
25°	8010	7780	7331
30°	7925	7455	6962
35°	7907	7143	6558
40°	7815	6767	6086
45°	7729	6358	5576
50°	7627	5906	4901
55°	7492	5347	4219
60°	7426	4631	3296
65°	7280	3776	1826
70°	6922	2592	1616
75°	6650	1653	1491
80°	5765	1500	1382
85°	4187	1315	1198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7729 cd/sqm

TEST NUMBER: P1053636

CATALOG NUMBER: R6R4-100D-835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	4.0
10°-20°	406.9	11.5
20°-30°	599.0	17.0
30°-40°	686.1	19.5
40°-50°	661.1	18.8
50°-60°	531.5	15.1
60°-70°	323.8	9.2
70°-80°	142.1	4.0
80°-90°	32.0	0.9
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°	1148.3	32.6
0°-40°	1834.4	52.0
0°-60°	3027.0	85.9
0°-90°	3524.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3524.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1494	1500	1490	1504	1500	142
15°	1452	1448	1440	1440	1434	411
25°	1349	1337	1310	1266	1234	621
35°	1204	1180	1087	1025	998	751
45°	1016	963	835	762	733	784
55°	798	705	570	483	450	716
65°	572	440	296	194	143	563
75°	320	180	80	74	72	334
85°	68	23	21	21	19	83
90°	0	0	0	0	0	

TEST NUMBER: P1053636

CATALOG NUMBER: R6R4-100D-835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.8	1505.8	1505.8	1505.8	1505.8
2.5°	1505.8	1503.9	1496.1	1523.3	1503.9
5°	1494.2	1500.0	1490.3	1503.9	1500.0
7.5°	1494.2	1494.2	1476.7	1498.1	1494.2
10°	1476.7	1482.6	1470.9	1484.5	1476.7
12.5°	1467.1	1469.0	1455.4	1461.2	1457.4
15°	1451.5	1447.7	1439.9	1439.9	1434.1
17.5°	1447.7	1430.2	1410.8	1420.5	1410.8
20°	1405.0	1403.1	1377.9	1379.8	1358.5
22.5°	1385.7	1374.0	1350.8	1323.6	1298.4
25°	1348.8	1337.2	1310.1	1265.5	1234.5
27.5°	1312.0	1308.1	1257.7	1209.3	1178.3
30°	1275.2	1265.5	1199.6	1145.3	1120.2
32.5°	1240.3	1226.7	1143.4	1085.3	1064.0
35°	1203.5	1180.2	1087.2	1025.2	998.1
37.5°	1155.0	1137.6	1025.2	965.1	932.2
40°	1112.4	1087.2	963.2	893.4	866.3
42.5°	1065.9	1029.1	901.2	829.5	792.6
45°	1015.5	963.2	835.3	761.6	732.6
47.5°	969.0	897.3	767.4	689.9	657.0
50°	910.9	839.1	705.4	622.1	585.3
52.5°	858.5	771.3	637.6	550.4	517.4
55°	798.4	705.4	569.8	482.6	449.6
57.5°	742.2	643.4	500.0	410.9	376.0
60°	689.9	571.7	430.2	339.1	306.2
62.5°	629.8	505.8	364.3	271.3	234.5
65°	571.7	439.9	296.5	193.8	143.4
67.5°	507.8	372.1	230.6	124.0	120.2
70°	439.9	308.1	164.7	104.7	102.7
72.5°	381.8	246.1	98.8	89.1	87.2
75°	319.8	180.2	79.5	73.6	71.7
77.5°	253.9	122.1	64.0	60.1	58.1
80°	186.0	58.1	48.4	44.6	44.6
82.5°	129.8	36.8	34.9	32.9	32.9
85°	67.8	23.3	21.3	21.3	19.4
87.5°	15.5	9.7	9.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)