

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: P1053651

Luminaire Tested: R6R4-100D-840-UNV-STD-W

Issue Date: 7/16/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053651
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-840-UNV-STD-W
Description: 4FT RIBBON LED LUMINAIRE WITH 4000K LEDS AT HI
Light Source: -
Ballast/Driver: -

Summary

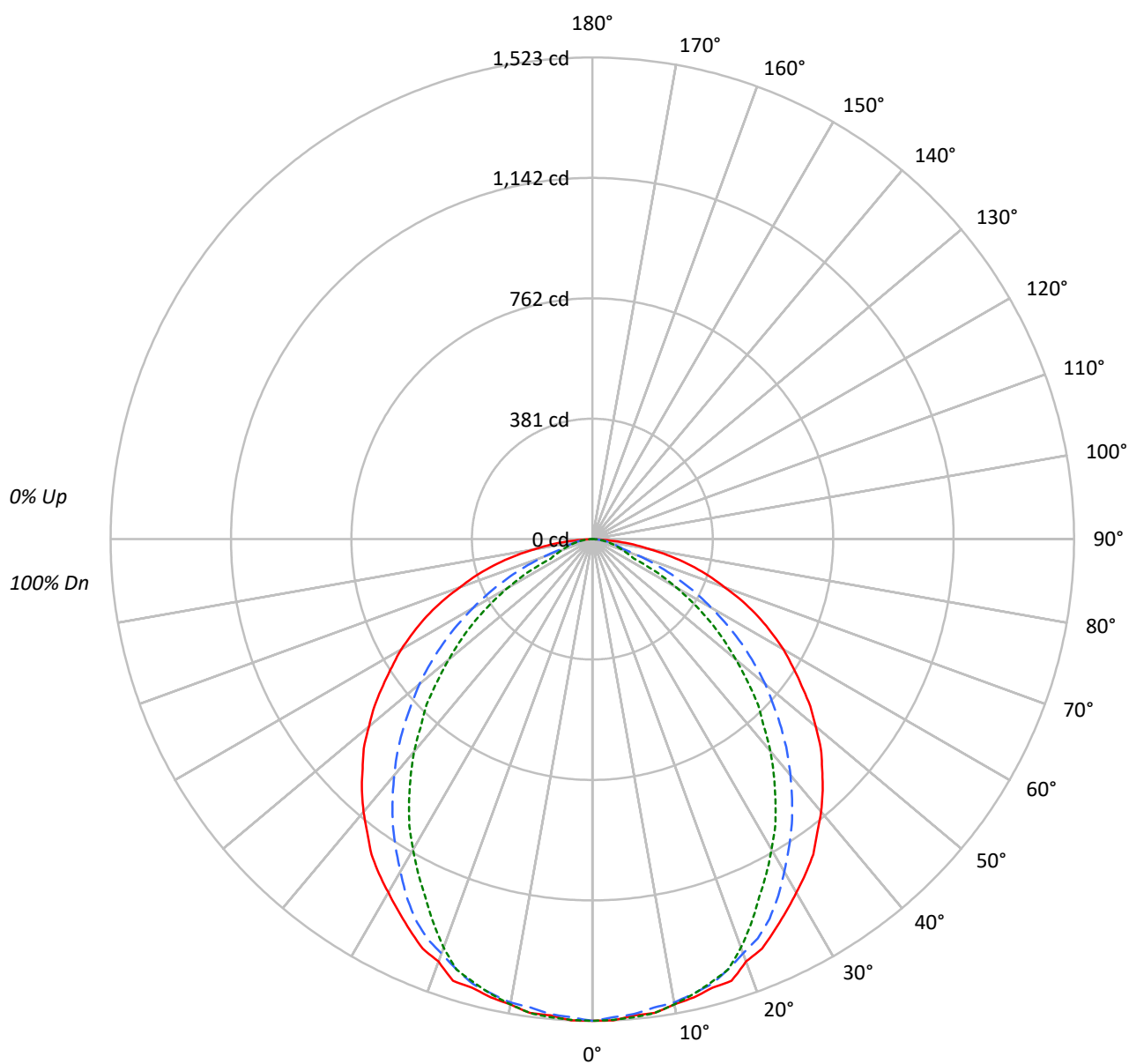
Lumens per Lamp: N/A
Luminaire Lumens: 3565.8 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.9
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8198	8198	8198
5°	8166	8145	8198
10°	8164	8132	8164
15°	8181	8116	8083
20°	8140	7983	7871
25°	8102	7869	7416
30°	8017	7541	7042
35°	7999	7226	6633
40°	7906	6845	6157
45°	7819	6431	5640
50°	7715	5975	4957
55°	7579	5408	4267
60°	7512	4684	3334
65°	7365	3819	1848
70°	7002	2622	1635
75°	6727	1672	1508
80°	5833	1519	1398
85°	4236	1334	1210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7819 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	4.0
10°-20°	411.6	11.5
20°-30°	605.9	17.0
30°-40°	694.1	19.5
40°-50°	668.8	18.8
50°-60°	537.6	15.1
60°-70°	327.6	9.2
70°-80°	143.8	4.0
80°-90°	32.4	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°	1161.6	32.6
0°-40°	1855.7	52.0
0°-60°	3062.0	85.9
0°-90°	3565.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1512	1517	1508	1521	1517	144
15°	1468	1464	1457	1457	1451	415
25°	1364	1353	1325	1280	1249	629
35°	1217	1194	1100	1037	1010	759
45°	1027	974	845	770	741	793
55°	808	714	576	488	455	724
65°	578	445	300	196	145	569
75°	324	182	80	74	72	338
85°	69	24	22	22	20	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.2	1523.2	1523.2	1523.2	1523.2
2.5°	1523.2	1521.3	1513.4	1540.9	1521.3
5°	1511.5	1517.4	1507.6	1521.3	1517.4
7.5°	1511.5	1511.5	1493.8	1515.4	1511.5
10°	1493.8	1499.7	1488.0	1501.7	1493.8
12.5°	1484.0	1486.0	1472.3	1478.1	1474.2
15°	1468.3	1464.4	1456.6	1456.6	1450.7
17.5°	1464.4	1446.8	1427.2	1437.0	1427.2
20°	1421.3	1419.3	1393.9	1395.8	1374.2
22.5°	1401.7	1389.9	1366.4	1339.0	1313.5
25°	1364.4	1352.7	1325.2	1280.1	1248.8
27.5°	1327.2	1323.3	1272.3	1223.3	1191.9
30°	1290.0	1280.1	1213.5	1158.6	1133.1
32.5°	1254.7	1240.9	1156.6	1097.8	1076.3
35°	1217.4	1193.9	1099.8	1037.1	1009.6
37.5°	1168.4	1150.8	1037.1	976.3	943.0
40°	1125.3	1099.8	974.3	903.7	876.3
42.5°	1078.2	1041.0	911.6	839.1	801.8
45°	1027.3	974.3	844.9	770.4	741.0
47.5°	980.2	907.7	776.3	697.9	664.6
50°	921.4	848.9	713.6	629.3	592.0
52.5°	868.5	780.2	645.0	556.8	523.4
55°	807.7	713.6	576.4	488.1	454.8
57.5°	750.8	650.9	505.8	415.6	380.3
60°	697.9	578.3	435.2	343.1	309.7
62.5°	637.1	511.7	368.6	274.5	237.2
65°	578.3	445.0	299.9	196.0	145.1
67.5°	513.6	376.4	233.3	125.5	121.5
70°	445.0	311.7	166.6	105.9	103.9
72.5°	386.2	249.0	100.0	90.2	88.2
75°	323.5	182.3	80.4	74.5	72.5
77.5°	256.8	123.5	64.7	60.8	58.8
80°	188.2	58.8	49.0	45.1	45.1
82.5°	131.3	37.2	35.3	33.3	33.3
85°	68.6	23.5	21.6	21.6	19.6
87.5°	15.7	9.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)