

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: P709920

Luminaire Tested: DL2R-BB-M-100D-940-UNV-STD-W-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709920  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2R-BB-M-100D-940-UNV-STD-W-4  
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

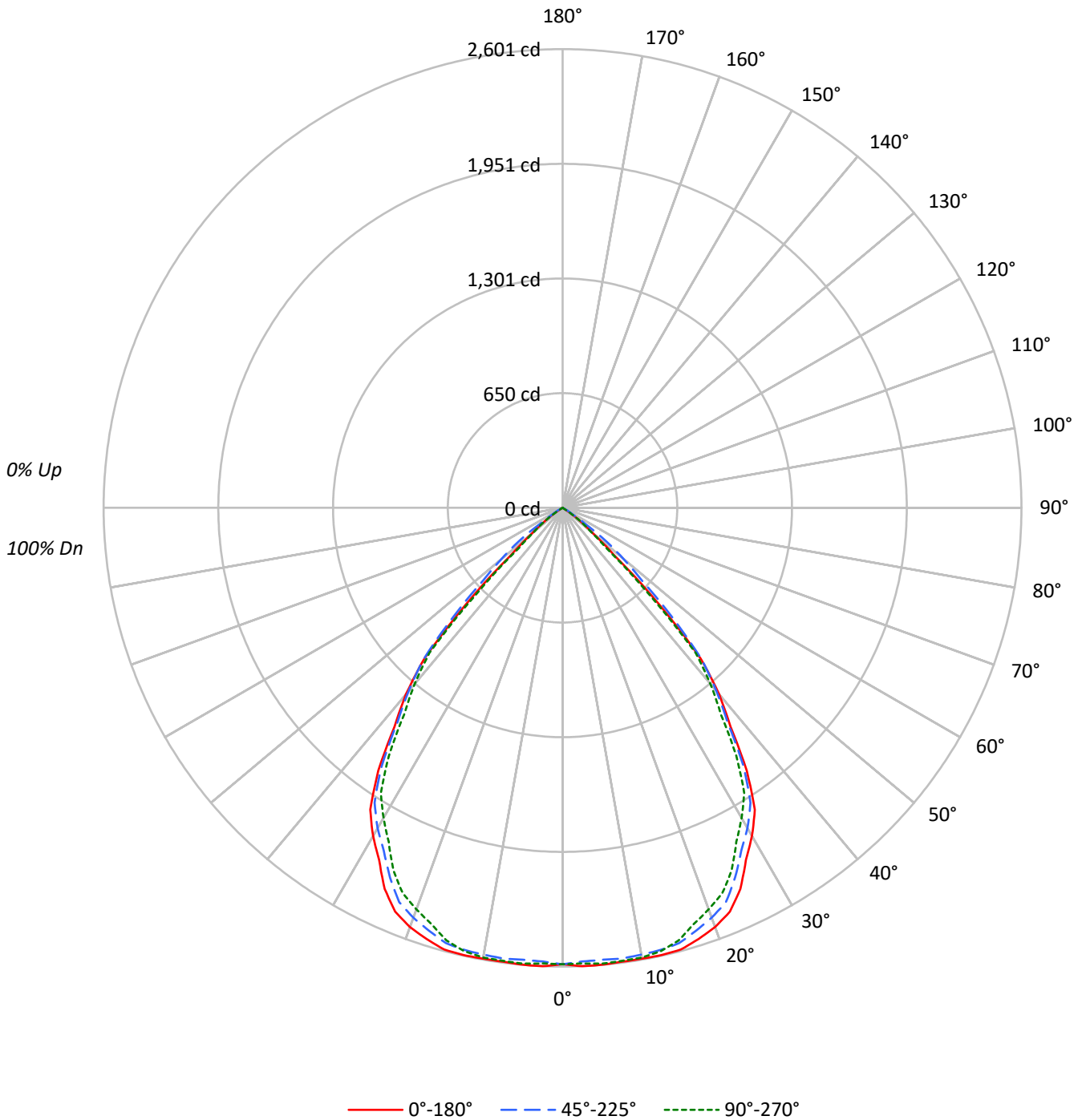
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3871.6 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 34.9  
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		0	
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92		
2	106	101	96	93	104	99	95	92	96	92	89	93	90	88	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70		
5	88	79	72	67	86	78	71	67	76	70	66	74	69	66	72	68	65	63		
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58		
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53		
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49		
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45		
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	41784	41784	41784
5°	42148	41692	42037
10°	42555	42174	42443
15°	43340	42706	42447
20°	43450	42483	41617
25°	42474	41215	40403
30°	40043	39083	37835
35°	35873	35242	33827
40°	29103	28612	27486
45°	17712	20080	15897
50°	5652	11349	5162
55°	1965	4121	2021
60°	158	1188	32
65°	0	73	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 20080 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.3	6.4
10°-20°	723.2	18.7
20°-30°	1066.0	27.5
30°-40°	1091.7	28.2
40°-50°	629.0	16.2
50°-60°	110.2	2.8
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2036.6	52.6
0°-40°	3128.2	80.8
0°-60°	3867.4	99.9
0°-90°	3871.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3871.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2588	2588	2588	2588	2588	
5°	2600	2595	2572	2603	2594	248
15°	2593	2614	2555	2555	2539	730
25°	2384	2402	2314	2293	2268	1088
35°	1820	1810	1788	1745	1716	1117
45°	776	868	879	836	696	594
55°	70	84	146	79	72	78
65°	0	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2587.9	2587.9	2587.9	2587.9	2587.9
2.5°	2601.1	2594.3	2573.9	2594.7	2585.5
5°	2600.5	2594.8	2572.4	2603.2	2593.7
7.5°	2595.6	2594.4	2577.0	2601.2	2590.4
10°	2595.6	2600.4	2572.4	2597.4	2588.8
12.5°	2597.2	2608.0	2567.8	2587.3	2574.9
15°	2592.8	2613.6	2554.9	2554.6	2539.4
17.5°	2563.6	2588.3	2514.4	2494.3	2474.1
20°	2528.8	2557.2	2472.5	2443.9	2422.1
22.5°	2478.4	2506.1	2419.8	2387.3	2365.5
25°	2384.2	2402.3	2313.5	2292.6	2267.9
27.5°	2250.9	2261.5	2192.5	2156.3	2134.1
30°	2147.8	2155.3	2096.3	2056.9	2029.4
32.5°	2028.2	2025.2	1982.3	1942.1	1916.2
35°	1820.0	1809.6	1788.0	1744.7	1716.2
37.5°	1563.8	1561.9	1540.6	1503.0	1473.3
40°	1380.8	1378.8	1357.5	1324.0	1304.1
42.5°	1158.8	1194.9	1169.8	1128.8	1116.4
45°	775.7	867.6	879.4	835.5	696.2
47.5°	400.2	523.1	612.4	477.0	330.5
50°	225.0	316.0	451.8	255.8	205.5
52.5°	146.6	190.6	315.3	163.3	138.0
55°	69.8	84.1	146.4	79.3	71.8
57.5°	25.0	38.7	64.0	39.2	24.2
60°	4.9	16.2	36.8	11.4	1.0
62.5°	1.7	4.8	21.4	3.0	1.0
65°	0.0	0.9	1.9	0.9	0.0
67.5°	0.0	0.7	0.7	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)