

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: P709919

Luminaire Tested: DL2R-BB-M-100D-935-UNV-STD-W-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709919  
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-935-UNV-STD-W-4  
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

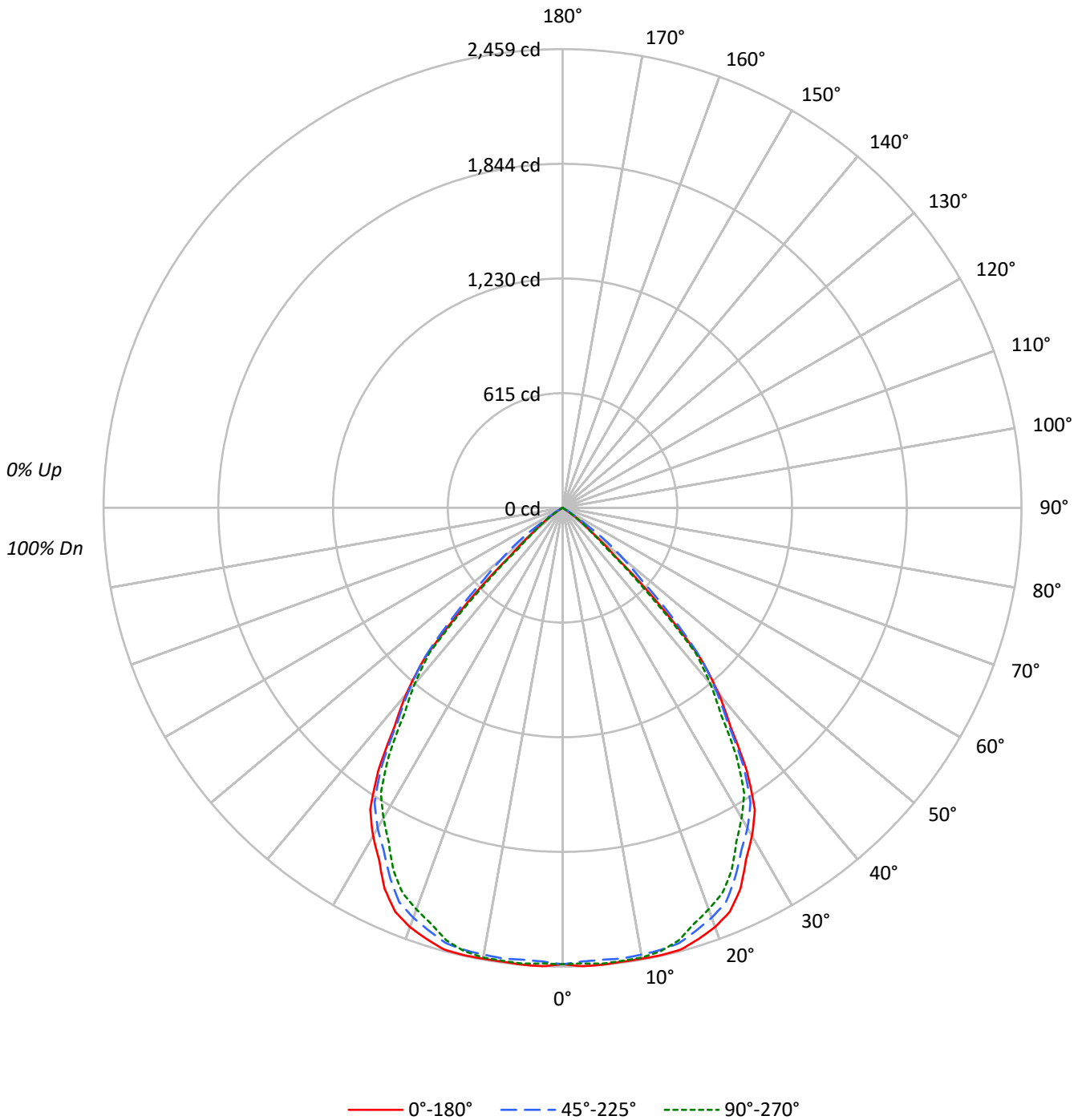
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3660.2 lumens  
Efficiency: N/A  
Efficacy: 104.9 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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
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°	39502	39502	39502
5°	39846	39415	39742
10°	40231	39871	40127
15°	40973	40374	40130
20°	41077	40163	39343
25°	40157	38965	38197
30°	37854	36948	35770
35°	33914	33317	31980
40°	27512	27048	25986
45°	16744	18984	15029
50°	5343	10731	4881
55°	1858	3896	1909
60°	149	1124	29
65°	0	69	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: 18984 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.8	6.4
10°-20°	683.7	18.7
20°-30°	1007.8	27.5
30°-40°	1032.0	28.2
40°-50°	594.7	16.2
50°-60°	104.2	2.8
60°-70°	4.0	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°	1925.3	52.6
0°-40°	2957.4	80.8
0°-60°	3656.2	99.9
0°-90°	3660.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3660.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2447	2447	2447	2447	2447	
5°	2458	2453	2432	2461	2452	234
15°	2451	2471	2415	2415	2401	690
25°	2254	2271	2187	2167	2144	1029
35°	1721	1711	1690	1649	1622	1056
45°	733	820	831	790	658	561
55°	66	80	138	75	68	74
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°	2446.6	2446.6	2446.6	2446.6	2446.6
2.5°	2459.0	2452.6	2433.4	2453.0	2444.4
5°	2458.5	2453.1	2431.9	2461.1	2452.1
7.5°	2453.9	2452.6	2436.3	2459.1	2449.0
10°	2453.9	2458.4	2431.9	2455.6	2447.5
12.5°	2455.4	2465.6	2427.5	2445.9	2434.3
15°	2451.2	2470.9	2415.4	2415.0	2400.8
17.5°	2423.7	2447.0	2377.1	2358.1	2339.0
20°	2390.7	2417.5	2337.5	2310.5	2289.8
22.5°	2343.0	2369.2	2287.6	2256.9	2236.3
25°	2254.1	2271.1	2187.2	2167.4	2144.1
27.5°	2128.0	2138.0	2072.8	2038.6	2017.6
30°	2030.4	2037.6	1981.8	1944.6	1918.6
32.5°	1917.5	1914.6	1874.0	1836.1	1811.5
35°	1720.6	1710.7	1690.3	1649.4	1622.5
37.5°	1478.4	1476.6	1456.4	1420.9	1392.8
40°	1305.3	1303.5	1283.3	1251.7	1232.9
42.5°	1095.6	1129.7	1105.9	1067.1	1055.4
45°	733.3	820.2	831.4	789.9	658.2
47.5°	378.4	494.5	579.0	451.0	312.4
50°	212.7	298.7	427.2	241.8	194.3
52.5°	138.6	180.2	298.1	154.4	130.5
55°	66.0	79.5	138.4	75.0	67.8
57.5°	23.6	36.6	60.5	37.0	22.9
60°	4.6	15.3	34.8	10.8	0.9
62.5°	1.6	4.5	20.2	2.9	0.9
65°	0.0	0.9	1.8	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)