

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: P709930

Luminaire Tested: DL2R-WB-M-100D-930-UNV-STD-W-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2R-WB-M-100D-930-UNV-STD-W-4  
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

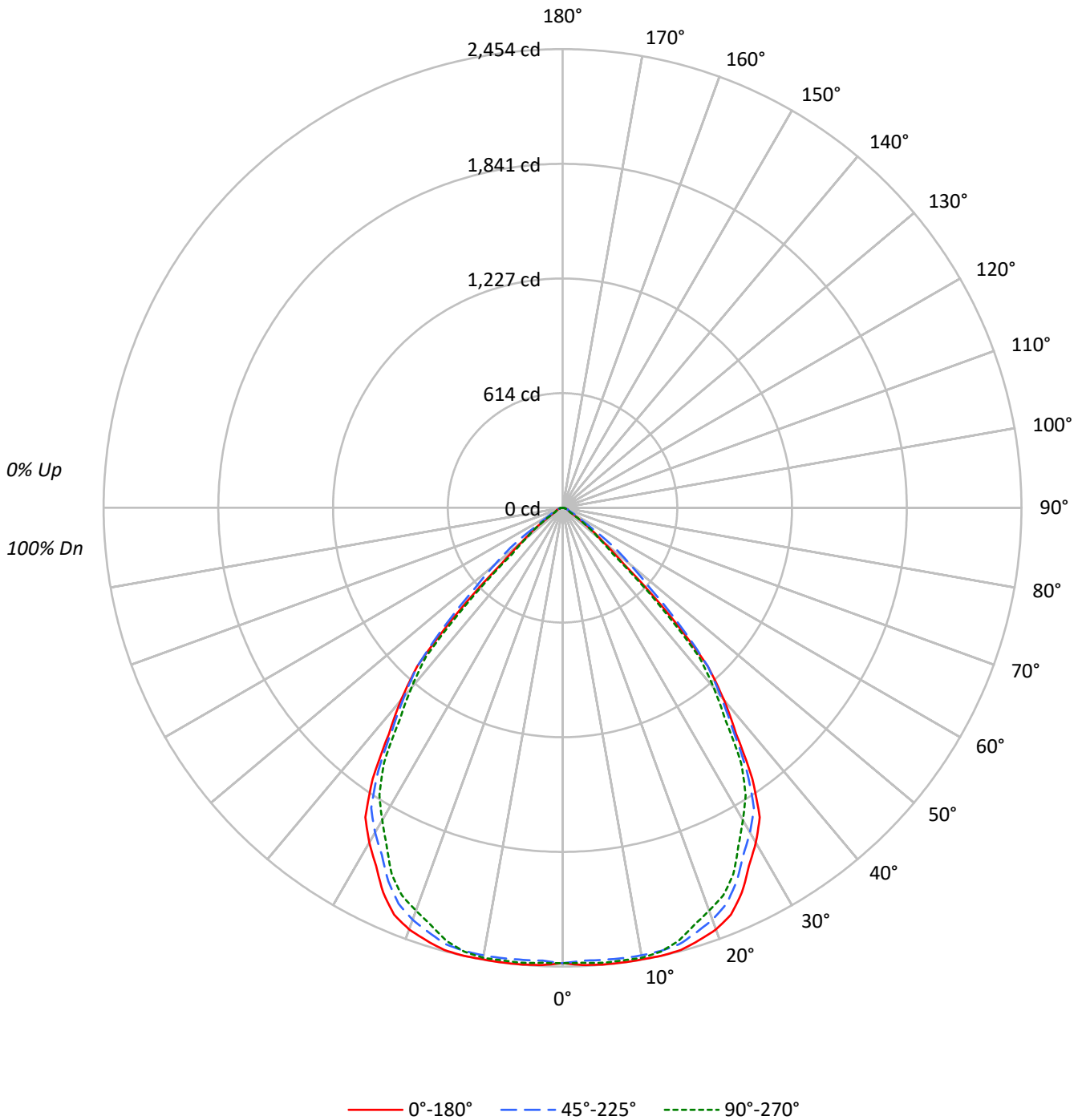
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3844.3 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.18 / 1.17  
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									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83																			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75																			
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68																			
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62																			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56																			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51																			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47																			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40																			

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

	0°	45°	90°
0°	39331	39331	39331
5°	39752	39339	39595
10°	40212	39851	40068
15°	40924	40394	40085
20°	41233	40280	39386
25°	40444	39266	38512
30°	38544	37377	35949
35°	34876	33868	32810
40°	28319	27744	26517
45°	18139	20153	16308
50°	7109	11936	6400
55°	3350	5461	3350
60°	1595	2648	1453
65°	1448	1517	1349
70°	1374	1416	1289
75°	1372	1372	1266
80°	1311	1311	1227
85°	1130	1130	1130

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 20283 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.3	6.1
10°-20°	683.8	17.8
20°-30°	1014.9	26.4
30°-40°	1054.2	27.4
40°-50°	634.4	16.5
50°-60°	152.1	4.0
60°-70°	41.2	1.1
70°-80°	23.1	0.6
80°-90°	7.2	0.2
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°	1932.1	50.3
0°-40°	2986.2	77.7
0°-60°	3772.7	98.1
0°-90°	3844.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2436	2436	2436	2436	2436	
5°	2453	2447	2427	2452	2443	234
15°	2448	2466	2417	2415	2398	690
25°	2270	2286	2204	2175	2162	1039
35°	1769	1753	1718	1684	1665	1084
45°	794	888	883	840	714	607
55°	119	135	194	129	119	123
65°	38	39	40	38	35	38
75°	22	23	22	21	20	23
85°	6	7	6	6	6	7
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2436.0	2436.0	2436.0	2436.0	2436.0
2.5°	2448.0	2442.5	2424.7	2444.3	2436.0
5°	2452.7	2446.7	2427.2	2452.5	2443.0
7.5°	2453.5	2453.8	2430.7	2453.0	2442.5
10°	2452.7	2458.0	2430.7	2451.7	2443.9
12.5°	2453.5	2462.1	2427.9	2443.1	2431.3
15°	2448.3	2465.6	2416.6	2415.3	2398.1
17.5°	2426.0	2447.3	2381.0	2360.6	2340.2
20°	2399.8	2420.5	2344.3	2314.7	2292.3
22.5°	2354.7	2376.1	2292.1	2260.5	2244.4
25°	2270.2	2285.8	2204.1	2174.7	2161.8
27.5°	2159.1	2164.2	2093.0	2058.8	2036.7
30°	2067.4	2071.8	2004.8	1966.1	1928.2
32.5°	1962.4	1955.0	1904.0	1861.7	1822.3
35°	1769.4	1753.1	1718.3	1683.6	1664.6
37.5°	1524.9	1520.8	1495.4	1453.6	1430.9
40°	1343.6	1357.4	1316.3	1285.7	1258.1
42.5°	1149.7	1183.5	1147.8	1104.5	1081.1
45°	794.4	888.3	882.6	840.0	714.2
47.5°	441.7	560.0	631.1	495.0	366.2
50°	283.0	364.0	475.2	298.7	254.8
52.5°	198.4	242.8	351.1	211.8	187.8
55°	119.0	134.6	194.0	129.3	119.0
57.5°	72.0	86.9	110.2	86.7	70.4
60°	49.4	62.3	82.0	57.9	45.0
62.5°	43.0	47.7	63.6	45.4	40.7
65°	37.9	38.8	39.7	37.9	35.3
67.5°	32.6	34.4	33.5	32.7	30.9
70°	29.1	30.8	30.0	29.9	27.3
72.5°	26.3	28.0	27.1	26.4	24.5
75°	22.0	22.9	22.0	21.2	20.3
77.5°	17.0	17.8	17.6	16.9	16.0
80°	14.1	14.9	14.1	14.1	13.2
82.5°	11.3	11.5	11.3	10.5	10.4
85°	6.1	7.1	6.1	6.1	6.1
87.5°	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)