

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: P709932

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

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709932  
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-940-UNV-STD-W-4  
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

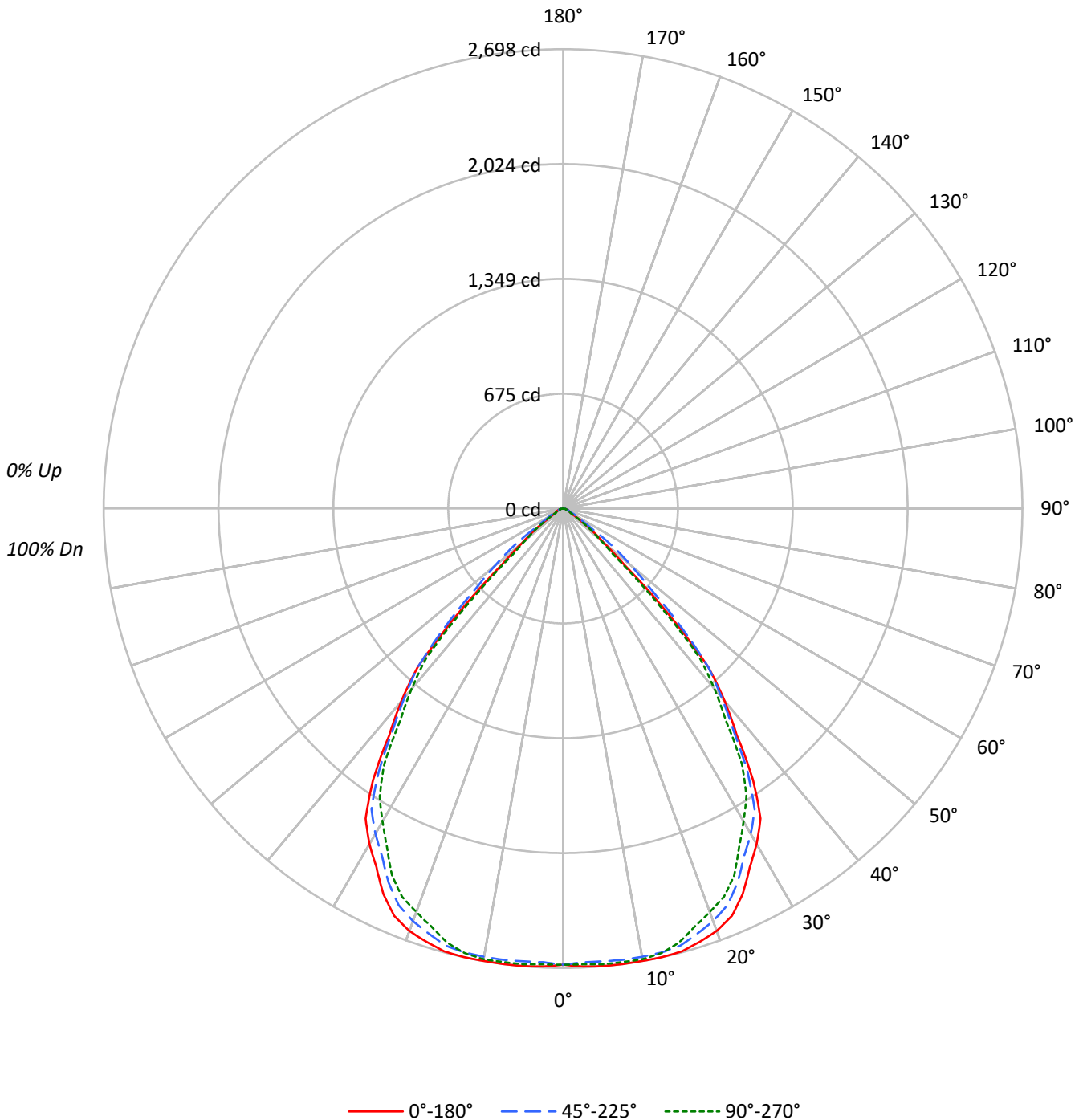
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4227.9 lumens  
Efficiency: N/A  
Efficacy: 121.1 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

TEST NUMBER: P709932  
CATALOG NUMBER: DL2R-WB-M-100D-940-UNV-STD-W-4

### Luminous Intensity Polar Plot



TEST NUMBER: P709932

CATALOG NUMBER: DL2R-WB-M-100D-940-UNV-STD-W-4

**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	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°	43255	43255	43255
5°	43720	43263	43546
10°	44225	43829	44066
15°	45008	44425	44084
20°	45349	44299	43316
25°	44480	43183	42355
30°	42392	41109	39534
35°	38356	37249	36084
40°	31145	30511	29162
45°	19947	22162	17934
50°	7817	13127	7038
55°	3685	6004	3685
60°	1753	2913	1595
65°	1593	1666	1482
70°	1511	1558	1421
75°	1510	1510	1391
80°	1441	1441	1358
85°	1260	1260	1260

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 22308 cd/sqm

TEST NUMBER: P709932

CATALOG NUMBER: DL2R-WB-M-100D-940-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	6.1
10°-20°	752.1	17.8
20°-30°	1116.2	26.4
30°-40°	1159.4	27.4
40°-50°	697.7	16.5
50°-60°	167.3	4.0
60°-70°	45.3	1.1
70°-80°	25.5	0.6
80°-90°	8.0	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°	2124.9	50.3
0°-40°	3284.2	77.7
0°-60°	4149.2	98.1
0°-90°	4227.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4227.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2679	2679	2679	2679	2679	
5°	2698	2691	2669	2697	2687	257
15°	2693	2712	2658	2656	2637	759
25°	2497	2514	2424	2392	2378	1142
35°	1946	1928	1890	1852	1831	1192
45°	874	977	971	924	785	667
55°	131	148	213	142	131	135
65°	42	43	44	42	39	42
75°	24	25	24	23	22	25
85°	7	8	7	7	7	8
90°	0	0	0	0	0	

TEST NUMBER: P709932

CATALOG NUMBER: DL2R-WB-M-100D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2679.0	2679.0	2679.0	2679.0	2679.0
2.5°	2692.2	2686.2	2666.7	2688.1	2679.0
5°	2697.5	2690.9	2669.3	2697.3	2686.8
7.5°	2698.3	2698.7	2673.3	2697.8	2686.2
10°	2697.5	2703.2	2673.3	2696.3	2687.8
12.5°	2698.3	2707.7	2670.2	2686.9	2673.8
15°	2692.6	2711.6	2657.7	2656.3	2637.3
17.5°	2668.0	2691.5	2618.5	2596.1	2573.7
20°	2639.3	2662.1	2578.2	2545.7	2521.0
22.5°	2589.7	2613.1	2520.8	2486.1	2468.3
25°	2496.8	2513.9	2424.0	2391.8	2377.5
27.5°	2374.6	2380.1	2301.8	2264.3	2240.1
30°	2273.8	2278.5	2205.0	2162.2	2120.5
32.5°	2158.2	2150.0	2094.0	2047.5	2004.2
35°	1946.0	1928.0	1889.8	1851.5	1830.7
37.5°	1677.0	1672.6	1644.7	1598.8	1573.7
40°	1477.7	1492.9	1447.6	1414.0	1383.6
42.5°	1264.4	1301.6	1262.2	1214.8	1188.9
45°	873.6	977.0	970.6	923.8	785.4
47.5°	485.7	615.8	694.1	544.4	402.8
50°	311.2	400.4	522.6	328.5	280.2
52.5°	218.2	267.1	386.1	232.9	206.5
55°	130.9	148.0	213.3	142.3	130.9
57.5°	79.1	95.6	121.2	95.4	77.4
60°	54.3	68.5	90.2	63.7	49.4
62.5°	47.3	52.4	70.0	50.0	44.8
65°	41.7	42.6	43.6	41.6	38.8
67.5°	35.8	37.8	36.8	36.0	33.9
70°	32.0	33.9	33.0	32.9	30.1
72.5°	28.9	30.8	29.9	29.1	27.0
75°	24.2	25.2	24.2	23.3	22.3
77.5°	18.6	19.5	19.4	18.6	17.7
80°	15.5	16.5	15.5	15.5	14.6
82.5°	12.4	12.6	12.4	11.6	11.5
85°	6.8	7.7	6.8	6.8	6.8
87.5°	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)