

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: P709921

Luminaire Tested: DL2R-BB-M-125D-930-UNV-STD-W-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709921  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2R-BB-M-125D-930-UNV-STD-W-4  
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

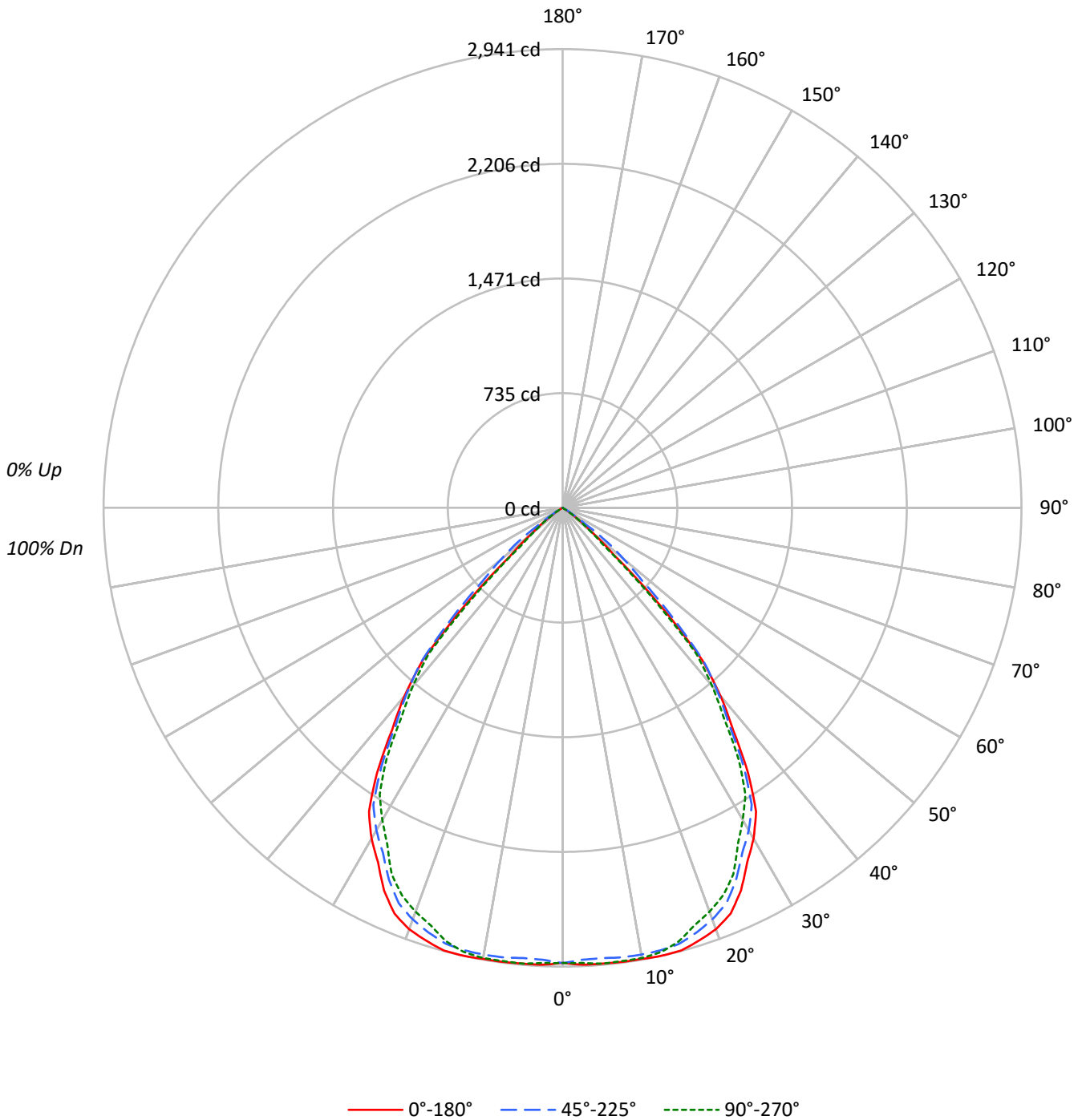
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4405.6 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 45.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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					10				
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	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	91	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	75	72	78	74	71	69							
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	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53							
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49							
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	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°	47117	47117	47117
5°	47540	46955	47540
10°	48147	47686	48047
15°	49120	48366	48102
20°	49398	48247	47325
25°	48204	46868	46160
30°	45645	44495	43048
35°	40820	39864	38753
40°	33245	32760	31424
45°	20292	22991	18278
50°	6621	12866	5825
55°	2258	4541	2334
60°	171	1308	55
65°	34	65	0
70°	0	42	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 23028 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.3	6.3
10°-20°	820.0	18.6
20°-30°	1211.9	27.5
30°-40°	1245.5	28.3
40°-50°	719.4	16.3
50°-60°	124.6	2.8
60°-70°	4.6	0.1
70°-80°	0.1	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°	2311.2	52.5
0°-40°	3556.8	80.7
0°-60°	4400.8	99.9
0°-90°	4405.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4405.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2918	2918	2918	2918	2918	
5°	2933	2925	2897	2939	2933	280
15°	2939	2960	2894	2898	2878	828
25°	2706	2730	2631	2601	2591	1237
35°	2071	2072	2022	1991	1966	1274
45°	889	1008	1007	953	800	679
55°	80	93	161	92	83	90
65°	1	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°	2918.2	2918.2	2918.2	2918.2	2918.2
2.5°	2931.7	2923.3	2899.9	2926.5	2920.4
5°	2933.2	2924.6	2897.1	2939.3	2933.2
7.5°	2936.1	2930.7	2907.1	2940.2	2930.6
10°	2936.7	2937.6	2908.6	2937.5	2930.6
12.5°	2941.0	2949.5	2905.7	2928.9	2917.2
15°	2938.6	2960.1	2893.5	2898.4	2877.7
17.5°	2909.0	2939.9	2854.6	2833.7	2807.8
20°	2875.0	2906.1	2808.0	2780.2	2754.3
22.5°	2815.1	2848.9	2743.9	2713.2	2689.4
25°	2705.8	2729.9	2630.8	2600.7	2591.1
27.5°	2561.9	2570.5	2493.8	2454.0	2431.7
30°	2448.3	2446.6	2386.6	2340.9	2309.0
32.5°	2308.0	2316.6	2256.1	2213.3	2180.7
35°	2071.0	2071.8	2022.5	1991.1	1966.1
37.5°	1794.5	1790.2	1756.1	1713.8	1699.7
40°	1577.3	1583.3	1554.3	1506.4	1490.9
42.5°	1325.5	1365.3	1344.8	1288.4	1269.4
45°	888.7	1008.5	1006.9	953.1	800.5
47.5°	454.8	604.7	694.9	544.3	365.2
50°	263.6	358.4	512.2	282.7	231.9
52.5°	167.0	212.1	364.1	183.8	154.3
55°	80.2	93.1	161.3	91.5	82.9
57.5°	29.2	43.5	71.6	44.5	31.4
60°	5.3	18.2	40.5	12.1	1.7
62.5°	1.7	5.0	23.6	3.1	1.1
65°	0.9	0.9	1.7	0.8	0.0
67.5°	0.0	0.8	0.9	0.0	0.0
70°	0.0	0.8	0.9	0.0	0.0
72.5°	0.0	0.2	0.2	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)