

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: P709917

Luminaire Tested: DL2R-BB-M-075D-940-UNV-STD-W-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709917  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2R-BB-M-075D-940-UNV-STD-W-4  
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

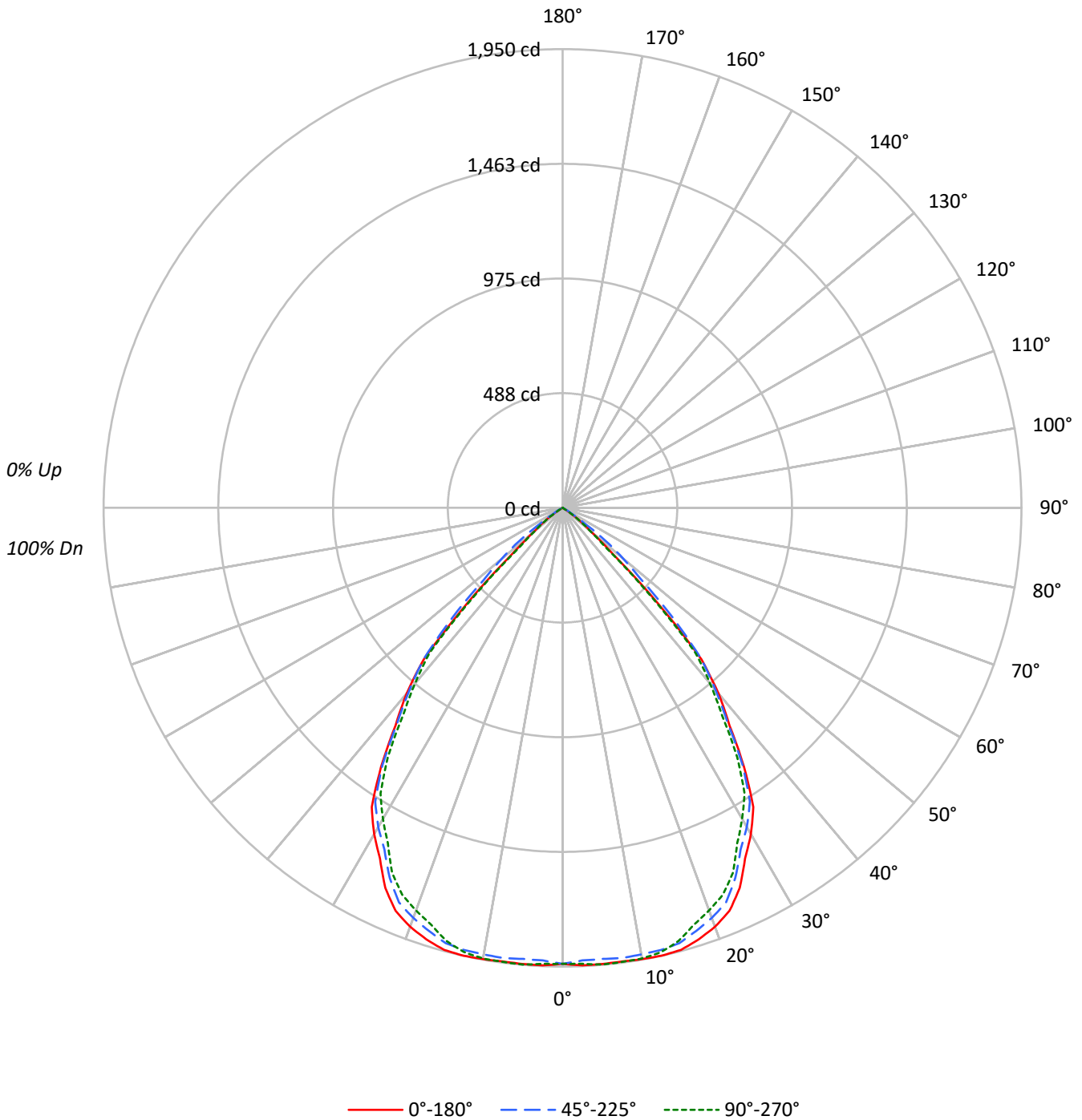
Lumens per Lamp: N/A  
Luminaire Lumens: 2897.3 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.3  
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	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	90	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	72	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	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	47	43	42

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

	0°	45°	90°
0°	31295	31295	31295
5°	31540	31195	31587
10°	31937	31603	31890
15°	32513	32025	31865
20°	32555	31871	31289
25°	31750	30937	30505
30°	29847	29194	28454
35°	26489	26278	25495
40°	21724	21357	20558
45°	12951	15232	12154
50°	4044	8450	3826
55°	1529	3004	1529
60°	94	846	32
65°	0	38	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: 15232 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.3	6.4
10°-20°	542.8	18.7
20°-30°	798.6	27.6
30°-40°	816.3	28.2
40°-50°	470.3	16.2
50°-60°	81.1	2.8
60°-70°	2.9	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°	1526.8	52.7
0°-40°	2343.1	80.9
0°-60°	2894.4	99.9
0°-90°	2897.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2897.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1938	1938	1938	1938	1938	
5°	1946	1941	1925	1951	1949	186
15°	1945	1961	1916	1919	1906	548
25°	1782	1798	1737	1719	1712	813
35°	1344	1354	1333	1308	1294	830
45°	567	652	667	630	532	439
55°	54	62	107	60	54	57
65°	0	0	1	0	0	0
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°	1938.3	1938.3	1938.3	1938.3	1938.3
2.5°	1946.8	1941.5	1925.8	1943.6	1939.8
5°	1946.0	1941.3	1924.7	1950.8	1948.9
7.5°	1944.9	1941.6	1930.0	1951.3	1946.6
10°	1948.0	1947.0	1927.6	1949.8	1945.1
12.5°	1949.5	1955.4	1925.3	1942.7	1934.2
15°	1945.1	1961.2	1915.9	1918.6	1906.3
17.5°	1923.3	1946.1	1886.0	1874.9	1857.4
20°	1894.7	1921.2	1854.9	1836.1	1821.0
22.5°	1854.3	1878.5	1815.3	1792.0	1779.8
25°	1782.2	1798.3	1736.6	1719.0	1712.3
27.5°	1680.0	1684.5	1638.1	1616.2	1607.6
30°	1600.9	1600.9	1565.9	1542.3	1526.2
32.5°	1508.6	1506.3	1481.4	1455.4	1439.3
35°	1343.9	1354.3	1333.2	1307.7	1293.5
37.5°	1165.6	1169.7	1153.6	1126.2	1114.3
40°	1030.7	1031.6	1013.3	993.5	975.4
42.5°	873.2	892.4	875.1	844.0	836.6
45°	567.2	651.6	667.1	629.9	532.3
47.5°	285.1	390.1	456.0	354.1	250.7
50°	161.0	223.6	336.4	187.3	152.3
52.5°	107.4	135.1	233.3	122.5	102.6
55°	54.3	61.9	106.7	60.0	54.3
57.5°	18.4	28.7	46.4	29.6	20.3
60°	2.9	12.4	26.2	9.5	1.0
62.5°	0.5	3.2	16.1	2.7	0.2
65°	0.0	0.0	1.0	0.0	0.0
67.5°	0.0	0.0	0.0	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)