

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: P709916

Luminaire Tested: DL2R-BB-M-075D-935-UNV-STD-W-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709916  
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-935-UNV-STD-W-4  
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

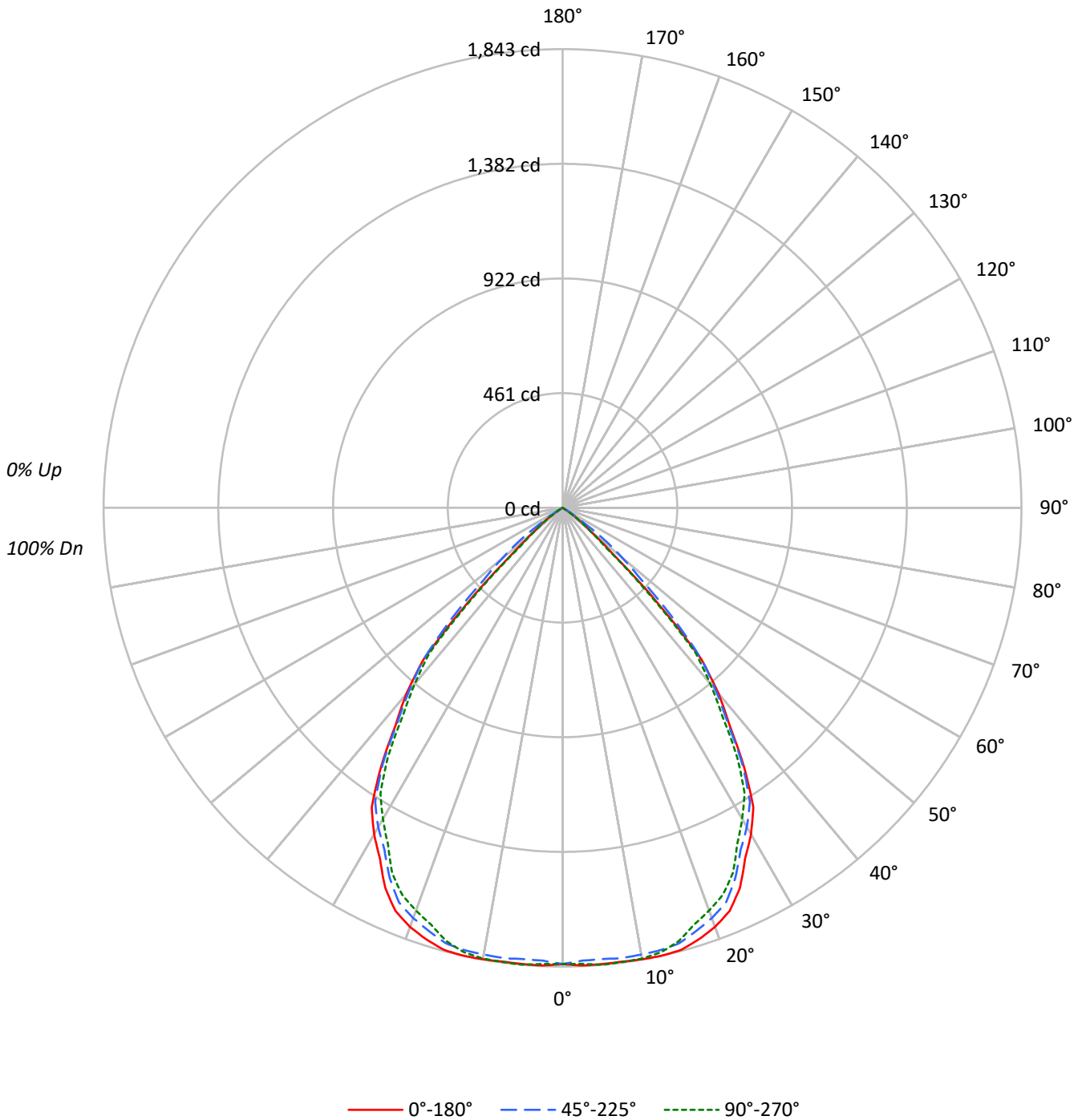
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2739.1 lumens  
Efficiency: N/A  
Efficacy: 108.3 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	50	30	10
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°	29586	29586	29586
5°	29819	29491	29862
10°	30193	29876	30147
15°	30736	30277	30125
20°	30776	30130	29579
25°	30015	29249	28839
30°	28215	27600	26899
35°	25042	24843	24102
40°	20537	20190	19437
45°	12243	14401	11490
50°	3823	7990	3615
55°	1444	2837	1444
60°	90	801	29
65°	0	34	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: 14401 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.2	6.4
10°-20°	513.2	18.7
20°-30°	755.0	27.6
30°-40°	771.7	28.2
40°-50°	444.6	16.2
50°-60°	76.6	2.8
60°-70°	2.8	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°	1443.4	52.7
0°-40°	2215.1	80.9
0°-60°	2736.3	99.9
0°-90°	2739.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2739.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1840	1835	1820	1844	1842	176
15°	1839	1854	1811	1814	1802	518
25°	1685	1700	1642	1625	1619	769
35°	1270	1280	1260	1236	1223	785
45°	536	616	631	596	503	415
55°	51	58	101	57	51	54
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°	1832.4	1832.4	1832.4	1832.4	1832.4
2.5°	1840.5	1835.4	1820.7	1837.5	1833.9
5°	1839.8	1835.3	1819.6	1844.3	1842.5
7.5°	1838.6	1835.6	1824.5	1844.8	1840.3
10°	1841.6	1840.7	1822.3	1843.3	1838.8
12.5°	1843.0	1848.6	1820.1	1836.6	1828.6
15°	1838.8	1854.0	1811.3	1813.8	1802.2
17.5°	1818.3	1839.8	1782.9	1772.5	1756.0
20°	1791.2	1816.3	1753.6	1735.8	1721.5
22.5°	1753.0	1776.0	1716.2	1694.1	1682.6
25°	1684.8	1700.0	1641.8	1625.1	1618.8
27.5°	1588.2	1592.5	1548.6	1527.9	1519.8
30°	1513.4	1513.4	1480.4	1458.0	1442.8
32.5°	1426.1	1424.0	1400.5	1375.9	1360.7
35°	1270.5	1280.4	1260.4	1236.3	1222.8
37.5°	1102.0	1105.8	1090.6	1064.7	1053.4
40°	974.4	975.3	957.9	939.2	922.2
42.5°	825.6	843.7	827.4	797.9	790.9
45°	536.2	616.0	630.7	595.6	503.2
47.5°	269.5	368.8	431.0	334.8	237.0
50°	152.2	211.3	318.1	177.1	143.9
52.5°	101.6	127.8	220.6	115.8	97.0
55°	51.3	58.5	100.8	56.7	51.3
57.5°	17.4	27.1	43.8	28.0	19.2
60°	2.8	11.7	24.8	9.0	0.9
62.5°	0.5	3.0	15.2	2.5	0.2
65°	0.0	0.0	0.9	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)