

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: P709924

Luminaire Tested: DL2R-WB-M-050D-930-UNV-STD-W-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709924
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2R-WB-M-050D-930-UNV-STD-W-4
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

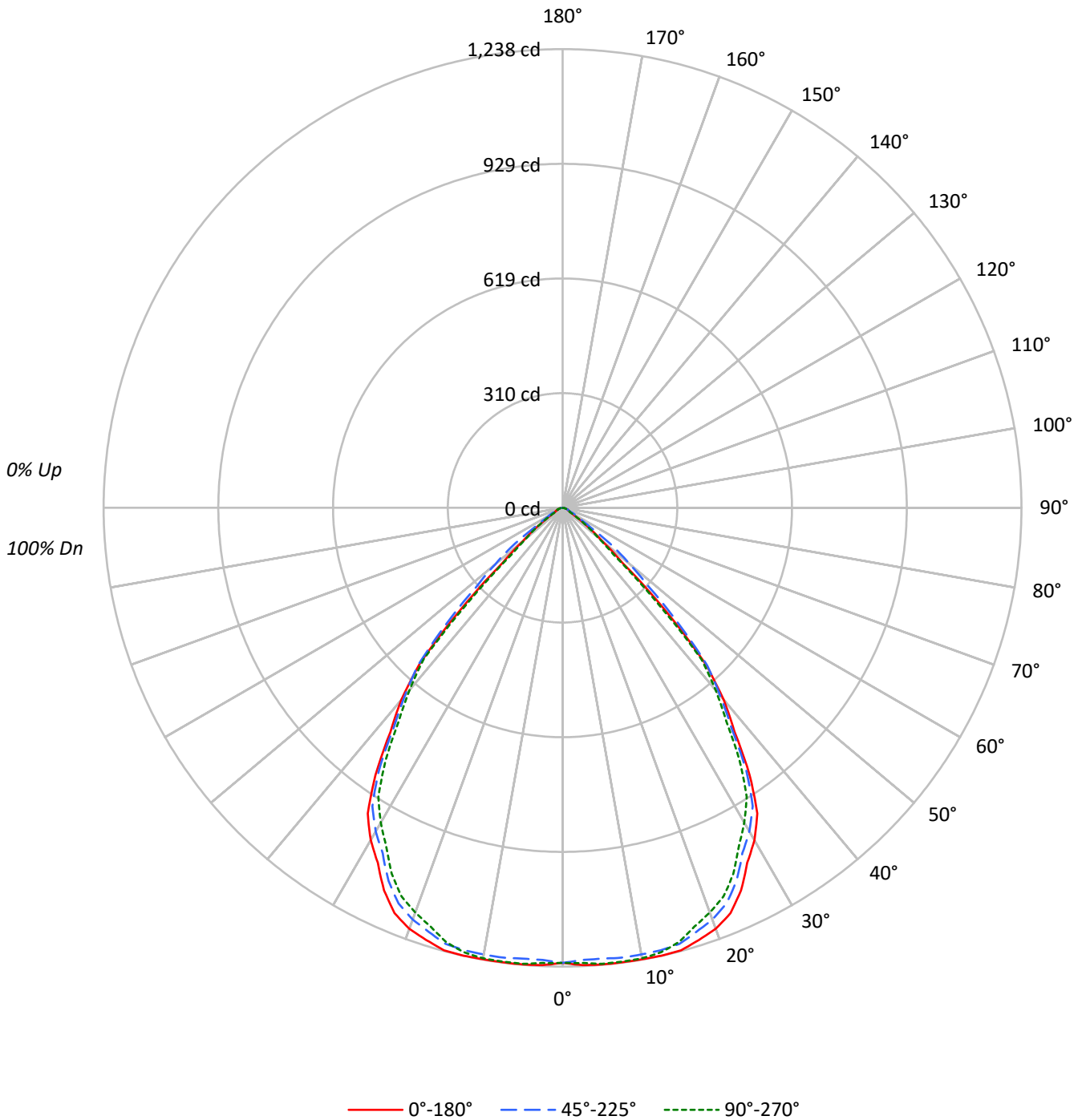
Lumens per Lamp: N/A
Luminaire Lumens: 1933.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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	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	85	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	65	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	61	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°	19829	19829	19829
5°	20049	19791	20020
10°	20281	20064	20236
15°	20660	20366	20277
20°	20768	20314	19966
25°	20291	19791	19413
30°	19298	18787	18278
35°	17343	17012	16403
40°	14252	13955	13548
45°	9019	10127	8133
50°	3499	5956	3213
55°	1689	2705	1714
60°	798	1337	739
65°	707	776	672
70°	708	708	666
75°	655	717	605
80°	660	660	567
85°	648	648	500

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10127 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	6.1
10°-20°	345.0	17.9
20°-30°	510.9	26.4
30°-40°	529.3	27.4
40°-50°	318.1	16.5
50°-60°	76.0	3.9
60°-70°	20.7	1.1
70°-80°	11.5	0.6
80°-90°	3.7	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°	973.6	50.4
0°-40°	1502.8	77.7
0°-60°	1897.0	98.1
0°-90°	1933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1237	1233	1221	1237	1235	118
15°	1236	1244	1218	1219	1213	348
25°	1139	1149	1111	1097	1090	521
35°	880	878	863	847	832	541
45°	395	443	444	420	356	302
55°	60	69	96	64	61	61
65°	18	19	20	18	18	19
75°	10	12	12	10	10	11
85°	4	4	4	4	3	4
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.1	1228.1	1228.1	1228.1	1228.1
2.5°	1235.2	1231.1	1221.1	1232.3	1229.5
5°	1237.0	1232.6	1221.1	1237.0	1235.2
7.5°	1237.0	1234.2	1224.4	1237.6	1235.0
10°	1237.0	1237.0	1223.8	1236.9	1234.3
12.5°	1237.7	1241.1	1223.0	1232.6	1228.7
15°	1236.0	1243.8	1218.4	1219.2	1213.1
17.5°	1222.8	1234.9	1199.9	1192.9	1184.6
20°	1208.7	1220.8	1182.3	1168.9	1162.0
22.5°	1184.1	1196.8	1155.5	1142.8	1135.2
25°	1139.0	1149.4	1110.9	1096.6	1089.7
27.5°	1079.5	1084.1	1050.8	1037.4	1029.8
30°	1035.1	1034.2	1007.7	990.7	980.4
32.5°	977.9	979.1	954.8	938.5	924.6
35°	879.9	878.2	863.1	846.9	832.2
37.5°	762.9	764.2	748.2	730.9	725.3
40°	676.2	678.8	662.1	643.6	642.8
42.5°	570.4	589.6	577.5	558.2	554.6
45°	395.0	443.2	443.5	420.0	356.2
47.5°	219.7	280.0	316.2	249.3	186.4
50°	139.3	178.9	237.1	149.4	127.9
52.5°	99.1	118.7	175.8	106.5	93.3
55°	60.0	68.6	96.1	64.3	60.9
57.5°	36.7	44.3	56.3	43.5	36.3
60°	24.7	31.6	41.4	28.0	22.9
62.5°	21.9	23.9	32.3	22.6	20.8
65°	18.5	19.3	20.3	18.5	17.6
67.5°	16.4	17.2	17.1	16.4	15.5
70°	15.0	15.9	15.0	14.9	14.1
72.5°	13.6	13.8	13.6	12.8	12.6
75°	10.5	11.5	11.5	10.5	9.7
77.5°	8.4	9.2	8.4	8.4	7.6
80°	7.1	7.1	7.1	7.1	6.1
82.5°	5.7	5.7	5.7	5.6	4.8
85°	3.5	3.5	3.5	3.5	2.7
87.5°	1.4	1.4	1.4	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)