

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: P709925

Luminaire Tested: DL2R-WB-M-050D-935-UNV-STD-W-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709925
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-935-UNV-STD-W-4
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

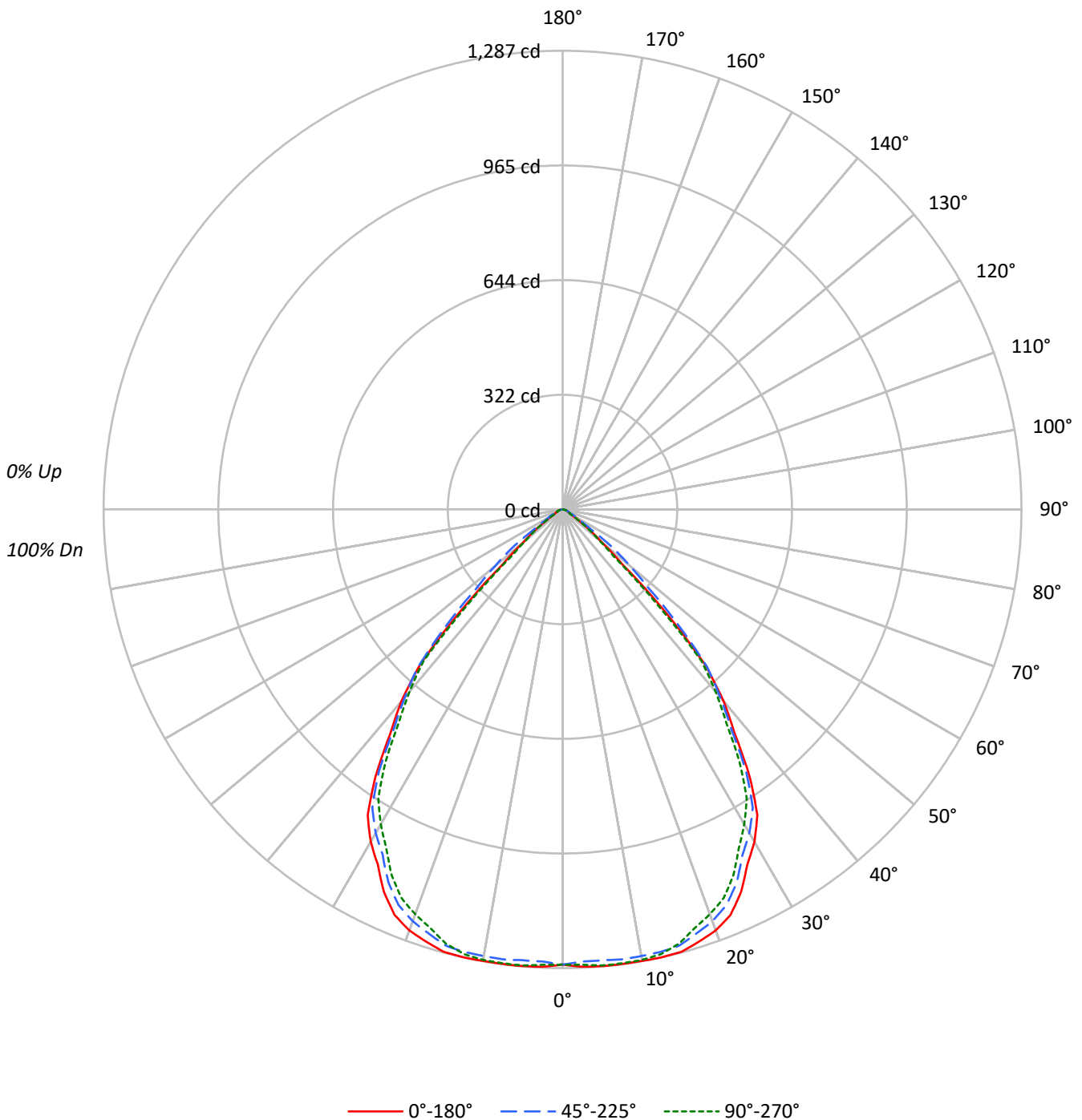
Lumens per Lamp: N/A
Luminaire Lumens: 2009.8 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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	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	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°	20617	20617	20617
5°	20844	20577	20814
10°	21086	20859	21040
15°	21483	21175	21083
20°	21594	21120	20759
25°	21098	20576	20184
30°	20064	19535	19003
35°	18031	17688	17055
40°	14819	14509	14084
45°	9378	10529	8455
50°	3637	6194	3338
55°	1754	2812	1779
60°	830	1392	769
65°	734	806	699
70°	736	736	694
75°	686	742	630
80°	679	679	595
85°	685	685	519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10529 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	6.1
10°-20°	358.7	17.8
20°-30°	531.2	26.4
30°-40°	550.3	27.4
40°-50°	330.8	16.5
50°-60°	79.1	3.9
60°-70°	21.5	1.1
70°-80°	12.0	0.6
80°-90°	3.9	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°	1012.2	50.4
0°-40°	1562.5	77.7
0°-60°	1972.4	98.1
0°-90°	2009.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2009.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1286	1282	1270	1286	1284	123
15°	1285	1293	1267	1268	1261	362
25°	1184	1195	1155	1140	1133	542
35°	915	913	897	881	865	563
45°	411	461	461	437	370	314
55°	62	71	100	67	63	64
65°	19	20	21	19	18	20
75°	11	12	12	11	10	12
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°	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1284.2	1279.9	1269.6	1281.2	1278.4
5°	1286.1	1281.6	1269.6	1286.1	1284.2
7.5°	1286.1	1283.2	1273.1	1286.7	1284.1
10°	1286.1	1286.1	1272.3	1286.0	1283.3
12.5°	1286.8	1290.4	1271.6	1281.6	1277.5
15°	1285.2	1293.2	1266.8	1267.6	1261.3
17.5°	1271.4	1284.0	1247.6	1240.2	1231.6
20°	1256.8	1269.3	1229.2	1215.3	1208.2
22.5°	1231.1	1244.4	1201.4	1188.2	1180.3
25°	1184.3	1195.1	1155.0	1140.1	1133.0
27.5°	1122.4	1127.2	1092.5	1078.6	1070.7
30°	1076.2	1075.2	1047.8	1030.1	1019.3
32.5°	1016.8	1018.0	992.8	975.7	961.4
35°	914.8	913.0	897.4	880.6	865.3
37.5°	793.3	794.6	777.9	760.0	754.0
40°	703.1	705.7	688.4	669.2	668.2
42.5°	593.1	613.0	600.4	580.3	576.6
45°	410.7	460.9	461.1	436.7	370.3
47.5°	228.4	291.1	328.7	259.2	193.8
50°	144.8	186.1	246.6	155.3	132.9
52.5°	103.0	123.5	182.8	110.8	97.0
55°	62.3	71.3	99.9	66.8	63.2
57.5°	38.1	46.0	58.5	45.3	37.8
60°	25.7	32.8	43.1	29.2	23.8
62.5°	22.7	24.8	33.6	23.5	21.6
65°	19.2	20.2	21.1	19.2	18.3
67.5°	17.0	18.0	17.8	17.0	16.1
70°	15.6	16.5	15.6	15.6	14.7
72.5°	14.1	14.3	14.1	13.4	13.2
75°	11.0	11.9	11.9	11.0	10.1
77.5°	8.8	9.5	8.8	8.8	7.9
80°	7.3	7.3	7.3	7.3	6.4
82.5°	5.9	5.9	5.9	5.9	5.0
85°	3.7	3.7	3.7	3.7	2.8
87.5°	1.5	1.5	1.5	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)