

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: P709926

Luminaire Tested: DL2R-WB-M-050D-940-UNV-STD-W-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709926
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-940-UNV-STD-W-4
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

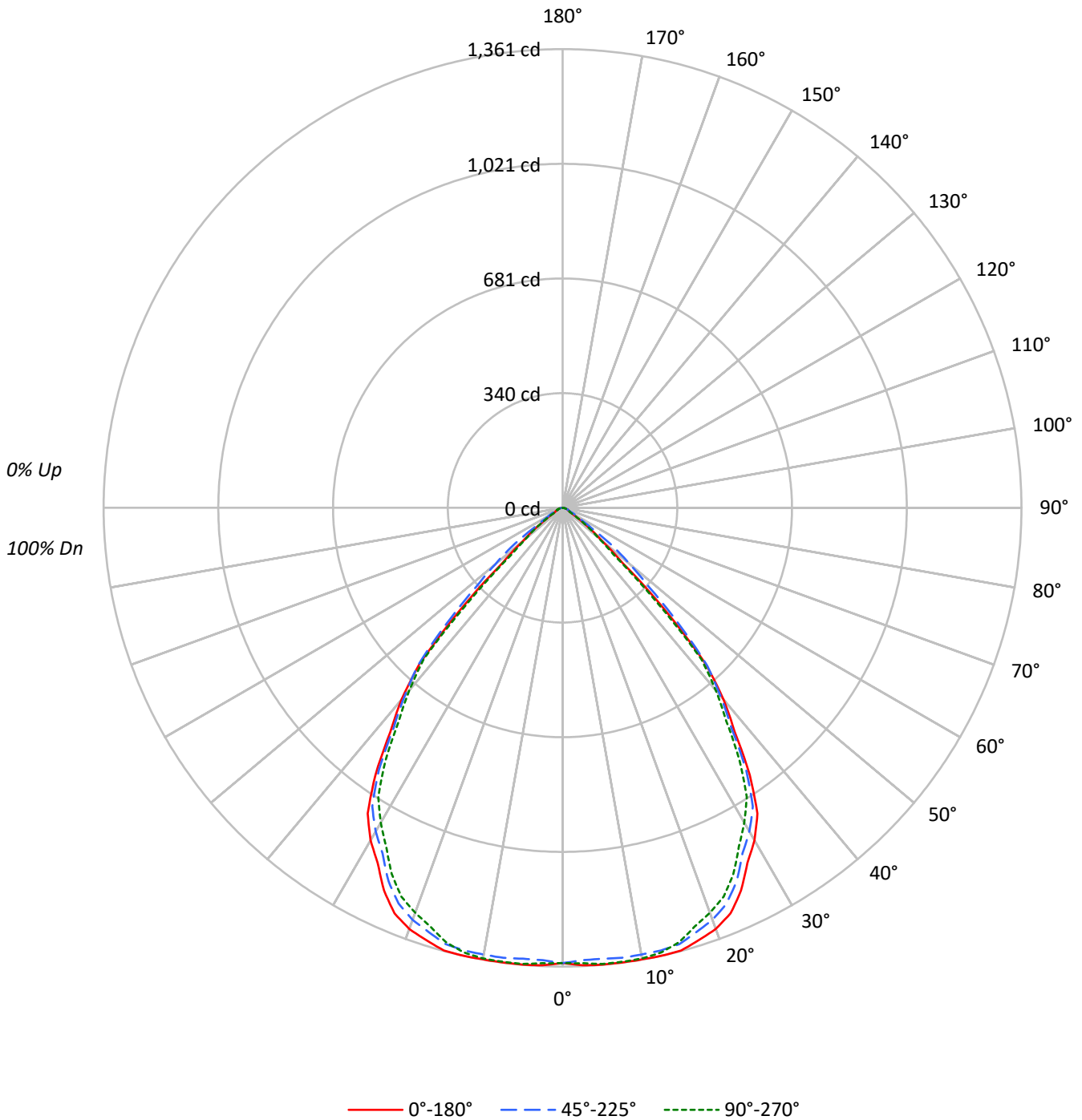
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2125.8 lumens
Efficiency: N/A
Efficacy: 128.1 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

TEST NUMBER: P709926
CATALOG NUMBER: DL2R-WB-M-050D-940-UNV-STD-W-4

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°	21808	21808	21808
5°	22047	21765	22016
10°	22302	22064	22256
15°	22723	22399	22302
20°	22842	22342	21957
25°	22317	21765	21349
30°	21222	20661	20102
35°	19074	18711	18041
40°	15675	15348	14897
45°	9919	11138	8944
50°	3848	6551	3532
55°	1855	2975	1883
60°	875	1473	814
65°	776	852	741
70°	779	779	732
75°	724	786	661
80°	725	725	632
85°	704	704	537

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11138 cd/sqm

TEST NUMBER: P709926

CATALOG NUMBER: DL2R-WB-M-050D-940-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	6.1
10°-20°	379.5	17.9
20°-30°	561.9	26.4
30°-40°	582.1	27.4
40°-50°	349.9	16.5
50°-60°	83.6	3.9
60°-70°	22.8	1.1
70°-80°	12.7	0.6
80°-90°	4.0	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°	1070.7	50.4
0°-40°	1652.8	77.7
0°-60°	2086.3	98.1
0°-90°	2125.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1360	1356	1343	1360	1358	130
15°	1359	1368	1340	1341	1334	383
25°	1253	1264	1222	1206	1198	573
35°	968	966	949	931	915	595
45°	434	488	488	462	392	332
55°	66	75	106	71	67	67
65°	20	21	22	20	19	21
75°	12	13	13	12	11	13
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°	1350.7	1350.7	1350.7	1350.7	1350.7
2.5°	1358.4	1353.9	1342.9	1355.3	1352.3
5°	1360.3	1355.7	1342.9	1360.3	1358.4
7.5°	1360.3	1357.3	1346.6	1361.1	1358.2
10°	1360.3	1360.3	1345.8	1360.3	1357.5
12.5°	1361.2	1364.9	1345.0	1355.7	1351.3
15°	1359.4	1367.9	1340.0	1340.8	1334.2
17.5°	1344.8	1358.1	1319.6	1311.8	1302.8
20°	1329.4	1342.6	1300.3	1285.5	1277.9
22.5°	1302.2	1316.2	1270.8	1256.8	1248.5
25°	1252.7	1264.1	1221.7	1206.1	1198.4
27.5°	1187.2	1192.3	1155.6	1140.9	1132.5
30°	1138.3	1137.4	1108.2	1089.6	1078.2
32.5°	1075.5	1076.8	1050.1	1032.1	1017.0
35°	967.7	965.8	949.3	931.4	915.3
37.5°	839.1	840.4	822.8	803.8	797.6
40°	743.7	746.5	728.2	707.8	706.8
42.5°	627.4	648.4	635.1	613.9	609.9
45°	434.4	487.5	487.8	461.9	391.7
47.5°	241.6	308.0	347.7	274.2	205.0
50°	153.2	196.8	260.8	164.3	140.6
52.5°	109.0	130.6	193.3	117.2	102.6
55°	65.9	75.4	105.7	70.7	66.9
57.5°	40.3	48.7	61.9	47.9	40.0
60°	27.1	34.7	45.6	30.9	25.2
62.5°	24.0	26.3	35.5	24.8	22.9
65°	20.3	21.3	22.3	20.3	19.4
67.5°	18.1	19.0	18.8	18.1	17.0
70°	16.5	17.4	16.5	16.5	15.5
72.5°	14.9	15.1	14.9	14.1	13.9
75°	11.6	12.6	12.6	11.6	10.6
77.5°	9.4	10.1	9.4	9.3	8.3
80°	7.8	7.8	7.8	7.7	6.8
82.5°	6.2	6.2	6.2	6.1	5.2
85°	3.8	3.8	3.8	3.8	2.9
87.5°	1.6	1.6	1.6	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)