

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: P709913

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709913
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2R-BB-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

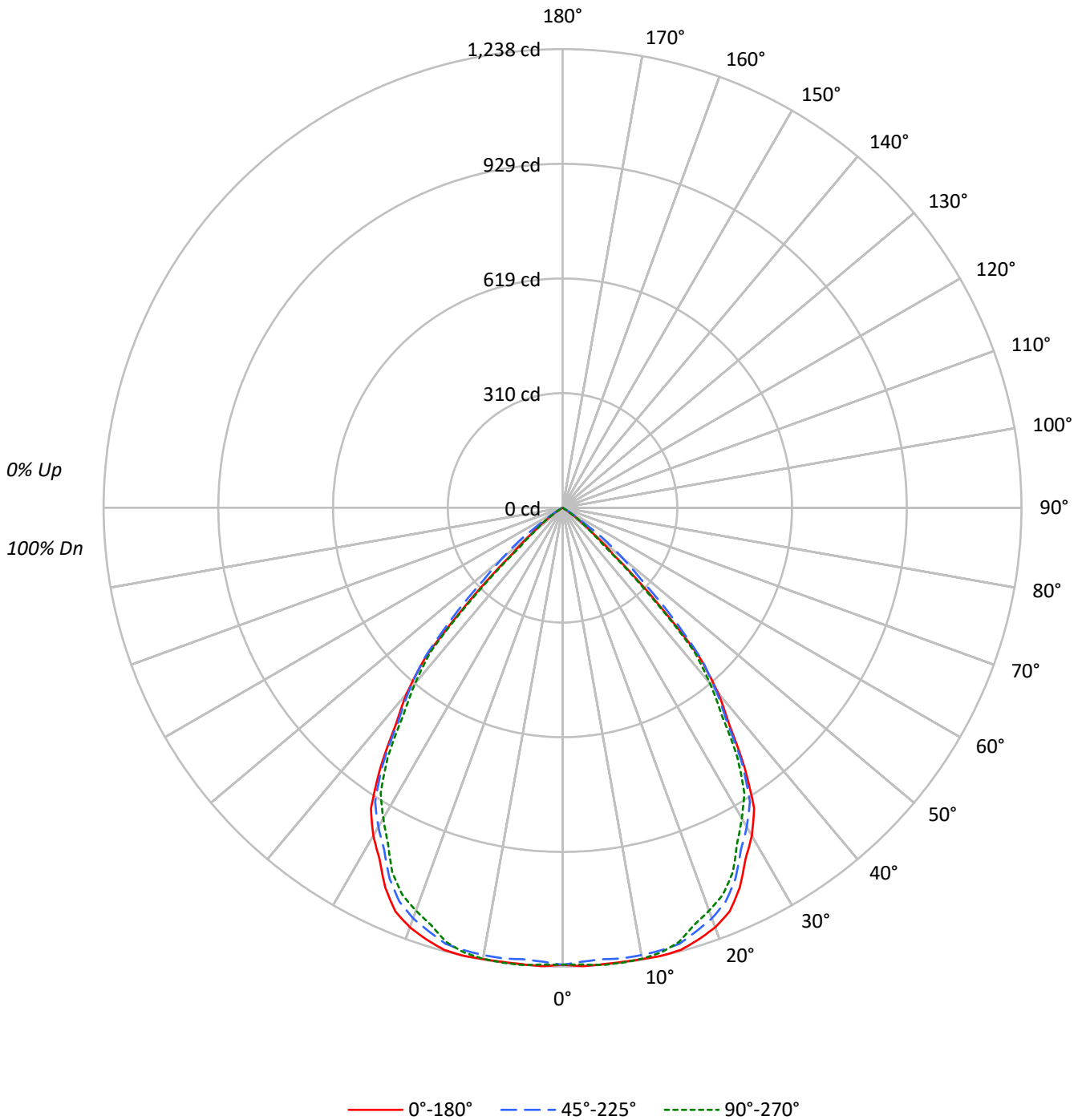
Lumens per Lamp: N/A
Luminaire Lumens: 1840.6 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	65	61	70	65	60	69	64	60	67	63	60	58
7	78	67	61	56	76	67	60	56	65	59	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°	19906	19906	19906
5°	20042	19819	20071
10°	20274	20094	20259
15°	20640	20363	20272
20°	20696	20254	19876
25°	20152	19662	19351
30°	19039	18526	18030
35°	16876	16677	16206
40°	13776	13582	13042
45°	8122	9586	7556
50°	2740	5343	2442
55°	929	1909	980
60°	90	562	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: 9586 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	6.4
10°-20°	344.8	18.7
20°-30°	507.5	27.6
30°-40°	518.5	28.2
40°-50°	298.1	16.2
50°-60°	52.1	2.8
60°-70°	1.9	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°	970.1	52.7
0°-40°	1488.6	80.9
0°-60°	1838.8	99.9
0°-90°	1840.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1237	1234	1223	1240	1238	118
15°	1235	1246	1218	1219	1213	348
25°	1131	1141	1104	1092	1086	517
35°	856	861	846	832	822	528
45°	356	414	420	398	331	278
55°	33	39	68	38	35	38
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°	1232.9	1232.9	1232.9	1232.9	1232.9
2.5°	1238.0	1235.2	1225.6	1236.5	1233.6
5°	1236.6	1233.9	1222.8	1240.2	1238.4
7.5°	1235.8	1233.7	1226.3	1241.4	1237.9
10°	1236.6	1236.6	1225.6	1239.2	1235.7
12.5°	1238.0	1241.6	1223.4	1234.1	1229.1
15°	1234.8	1245.5	1218.2	1219.0	1212.8
17.5°	1221.4	1235.8	1198.6	1189.8	1180.3
20°	1204.5	1219.7	1178.8	1164.9	1156.8
22.5°	1178.8	1193.3	1150.2	1138.5	1129.7
25°	1131.2	1141.1	1103.7	1091.7	1086.2
27.5°	1068.8	1073.9	1041.3	1028.9	1019.9
30°	1021.2	1021.2	993.7	979.6	967.1
32.5°	961.8	958.9	940.9	924.6	912.8
35°	856.2	860.7	846.1	832.2	822.2
37.5°	739.4	743.7	728.8	712.8	706.0
40°	653.6	657.2	644.4	627.7	618.8
42.5°	548.0	567.3	555.7	537.4	525.6
45°	355.7	414.0	419.8	398.1	330.9
47.5°	185.4	246.3	291.1	222.4	155.8
50°	109.1	148.5	212.7	121.4	97.2
52.5°	70.2	87.4	149.6	77.6	65.6
55°	33.0	39.2	67.8	38.4	34.8
57.5°	12.3	18.3	30.6	18.6	13.4
60°	2.8	8.2	17.4	5.4	0.9
62.5°	0.5	2.4	10.1	1.1	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)