

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: P709912

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709912
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-930-UNV-STD-W-4
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

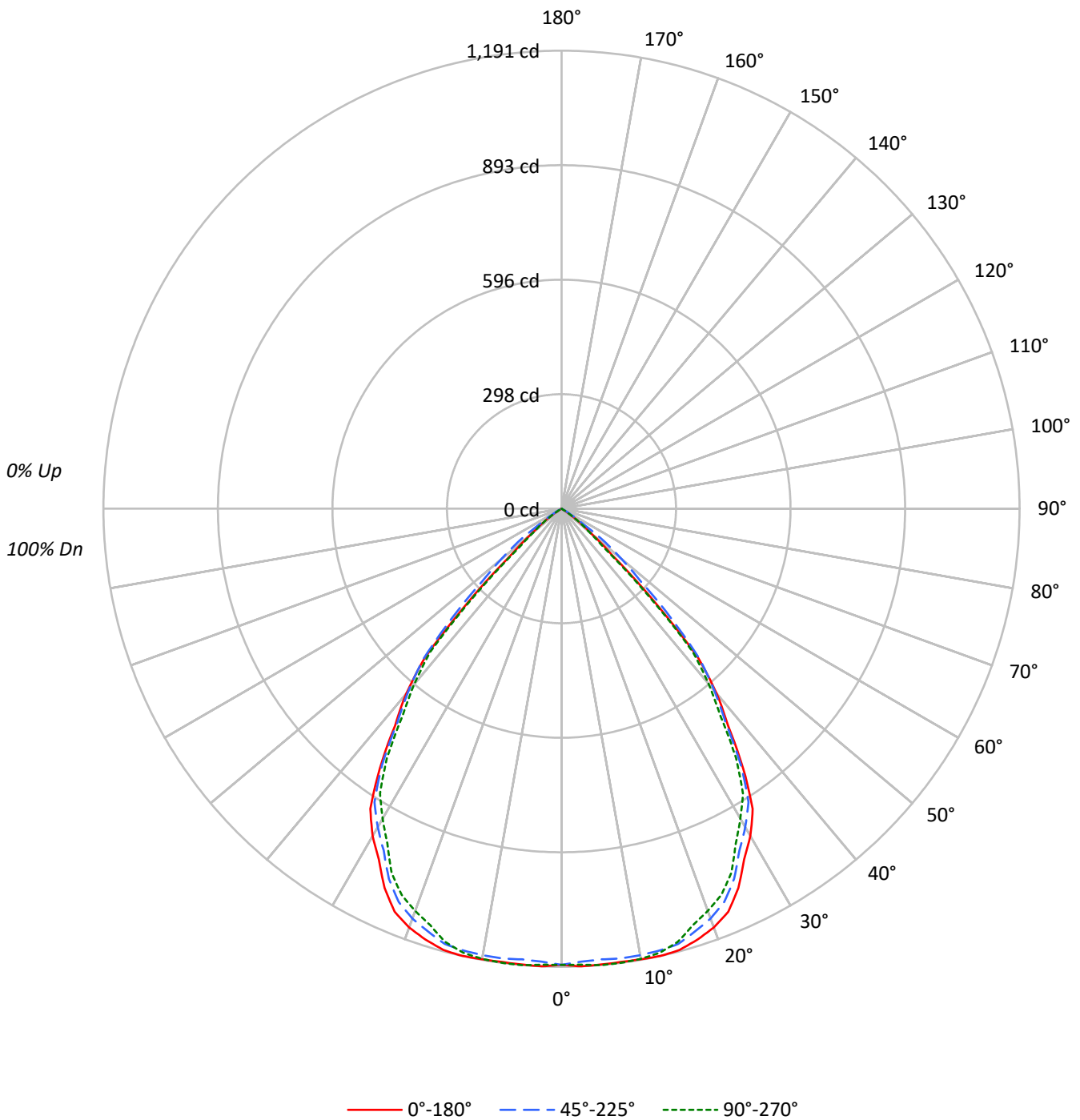
Lumens per Lamp: N/A
Luminaire Lumens: 1770.3 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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°	19146	19146	19146
5°	19277	19062	19305
10°	19500	19325	19485
15°	19850	19585	19499
20°	19905	19481	19117
25°	19383	18911	18611
30°	18310	17818	17340
35°	16230	16038	15587
40°	13249	13063	12543
45°	7811	9220	7268
50°	2637	5137	2349
55°	892	1838	943
60°	87	543	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: 9220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	6.4
10°-20°	331.7	18.7
20°-30°	488.1	27.6
30°-40°	498.7	28.2
40°-50°	286.7	16.2
50°-60°	50.1	2.8
60°-70°	1.8	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°	933.0	52.7
0°-40°	1431.7	80.9
0°-60°	1768.5	99.9
0°-90°	1770.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1189	1187	1176	1193	1191	114
15°	1188	1198	1172	1172	1166	335
25°	1088	1097	1062	1050	1045	497
35°	823	828	814	800	791	508
45°	342	398	404	383	318	268
55°	32	38	65	37	34	36
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°	1185.8	1185.8	1185.8	1185.8	1185.8
2.5°	1190.8	1188.0	1178.7	1189.3	1186.5
5°	1189.4	1186.7	1176.1	1192.9	1191.1
7.5°	1188.6	1186.5	1179.5	1194.0	1190.6
10°	1189.4	1189.4	1178.7	1191.9	1188.5
12.5°	1190.8	1194.2	1176.6	1186.9	1182.1
15°	1187.5	1197.9	1171.7	1172.4	1166.5
17.5°	1174.7	1188.6	1152.8	1144.4	1135.2
20°	1158.5	1173.1	1133.8	1120.4	1112.6
22.5°	1133.8	1147.8	1106.3	1095.0	1086.5
25°	1088.0	1097.4	1061.5	1050.0	1044.7
27.5°	1028.0	1032.8	1001.5	989.5	980.9
30°	982.1	982.1	955.7	942.2	930.1
32.5°	925.0	922.3	904.9	889.4	878.0
35°	823.4	827.8	813.7	800.3	790.8
37.5°	711.2	715.3	700.9	685.6	679.1
40°	628.6	632.0	619.8	603.7	595.1
42.5°	527.1	545.7	534.4	516.9	505.5
45°	342.1	398.1	403.8	382.9	318.3
47.5°	178.3	236.9	280.0	213.9	149.9
50°	105.0	142.8	204.5	116.7	93.5
52.5°	67.6	84.1	143.9	74.7	63.2
55°	31.7	37.8	65.3	36.9	33.5
57.5°	11.8	17.7	29.4	17.9	12.8
60°	2.7	7.8	16.8	5.2	0.9
62.5°	0.5	2.3	9.7	1.0	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)