

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: P709931

Luminaire Tested: DL2R-WB-M-100D-935-UNV-STD-W-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709931
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2R-WB-M-100D-935-UNV-STD-W-4
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

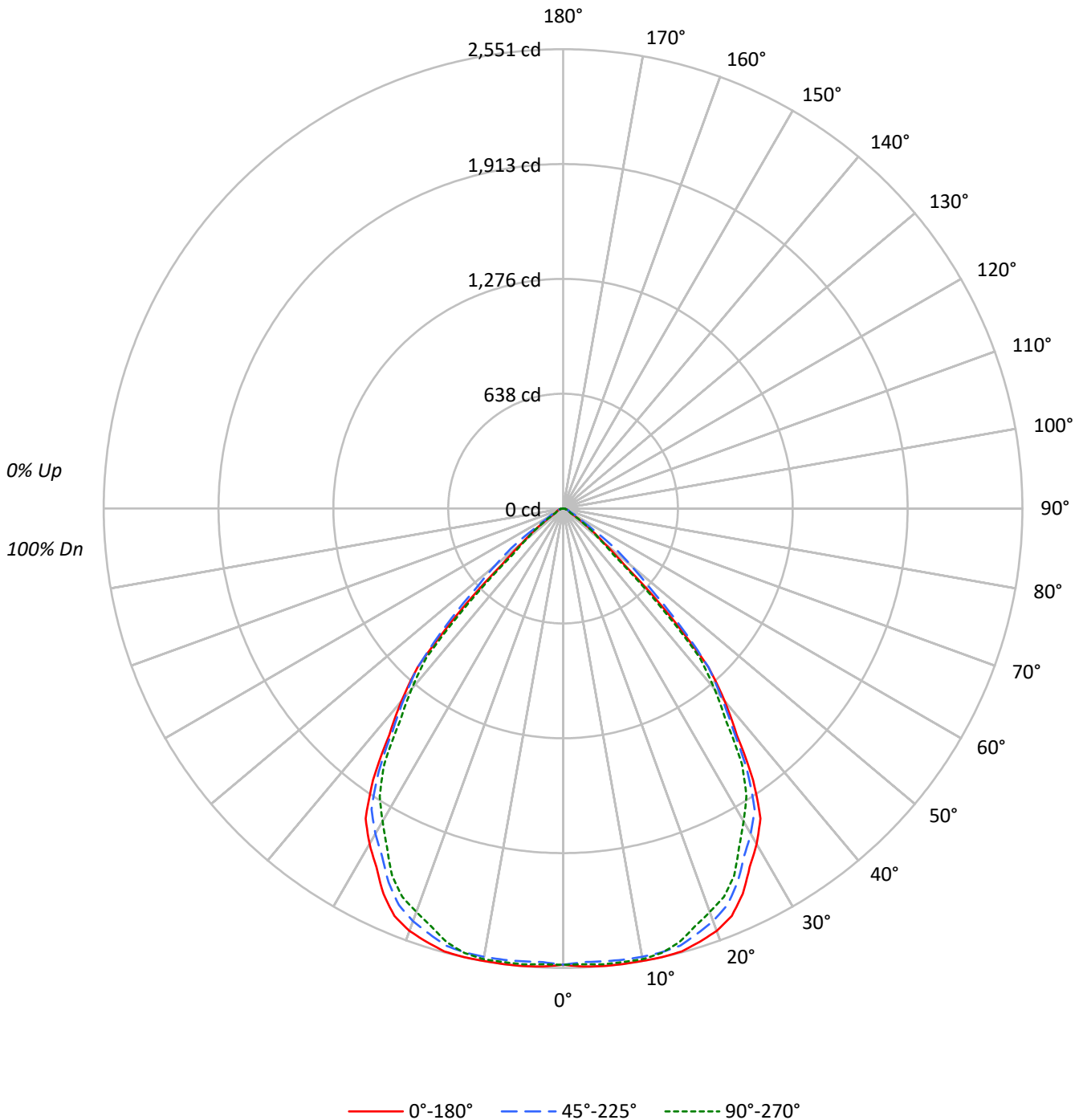
Lumens per Lamp: N/A
Luminaire Lumens: 3997.1 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.9
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	84	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	60	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°	40894	40894	40894
5°	41332	40901	41169
10°	41810	41433	41659
15°	42551	41999	41677
20°	42873	41880	40950
25°	42050	40827	40043
30°	40076	38863	37377
35°	36263	35215	34113
40°	29444	28846	27571
45°	18858	20952	16954
50°	7390	12411	6654
55°	3485	5678	3485
60°	1657	2751	1511
65°	1505	1574	1402
70°	1426	1473	1341
75°	1429	1429	1316
80°	1367	1367	1283
85°	1186	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21089 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	6.1
10°-20°	711.0	17.8
20°-30°	1055.2	26.4
30°-40°	1096.1	27.4
40°-50°	659.6	16.5
50°-60°	158.1	4.0
60°-70°	42.9	1.1
70°-80°	24.1	0.6
80°-90°	7.5	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°	2008.8	50.3
0°-40°	3104.9	77.7
0°-60°	3922.6	98.1
0°-90°	3997.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2533	2533	2533	2533	2533	
5°	2550	2544	2524	2550	2540	243
15°	2546	2564	2513	2511	2493	718
25°	2360	2376	2292	2261	2248	1080
35°	1840	1823	1787	1750	1731	1127
45°	826	924	918	873	742	631
55°	124	140	202	134	124	127
65°	39	40	41	39	37	39
75°	23	24	23	22	21	24
85°	6	7	6	6	6	8
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2532.8	2532.8	2532.8	2532.8	2532.8
2.5°	2545.2	2539.4	2521.0	2541.4	2532.8
5°	2550.2	2543.9	2523.6	2550.0	2540.1
7.5°	2550.9	2551.3	2527.2	2550.4	2539.5
10°	2550.2	2555.6	2527.2	2549.1	2541.0
12.5°	2550.9	2559.9	2524.3	2540.2	2527.8
15°	2545.6	2563.5	2512.6	2511.3	2493.3
17.5°	2522.3	2544.6	2475.5	2454.4	2433.2
20°	2495.2	2516.7	2437.4	2406.6	2383.3
22.5°	2448.2	2470.5	2383.2	2350.3	2333.5
25°	2360.4	2376.5	2291.7	2261.1	2247.7
27.5°	2244.9	2250.1	2176.2	2140.6	2117.7
30°	2149.6	2154.1	2084.5	2044.2	2004.8
32.5°	2040.3	2032.6	1979.6	1935.6	1894.8
35°	1839.8	1822.7	1786.6	1750.4	1730.7
37.5°	1585.5	1581.2	1554.8	1511.4	1487.8
40°	1397.0	1411.3	1368.6	1336.8	1308.1
42.5°	1195.3	1230.4	1193.3	1148.4	1124.0
45°	825.9	923.6	917.6	873.4	742.5
47.5°	459.2	582.3	656.2	514.7	380.8
50°	294.2	378.5	494.1	310.7	264.9
52.5°	206.2	252.5	365.0	220.2	195.2
55°	123.8	139.9	201.7	134.5	123.8
57.5°	74.8	90.4	114.6	90.2	73.1
60°	51.3	64.8	85.2	60.2	46.8
62.5°	44.7	49.6	66.2	47.2	42.4
65°	39.4	40.3	41.2	39.3	36.7
67.5°	33.9	35.8	34.8	34.1	32.1
70°	30.2	32.1	31.2	31.1	28.4
72.5°	27.3	29.2	28.2	27.5	25.5
75°	22.9	23.8	22.9	22.0	21.1
77.5°	17.6	18.5	18.3	17.6	16.7
80°	14.7	15.6	14.7	14.7	13.8
82.5°	11.7	11.9	11.7	11.0	10.8
85°	6.4	7.3	6.4	6.4	6.4
87.5°	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)