

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: P709929

Luminaire Tested: DL2R-WB-M-075D-940-UNV-STD-W-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709929
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2R-WB-M-075D-940-UNV-STD-W-4
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

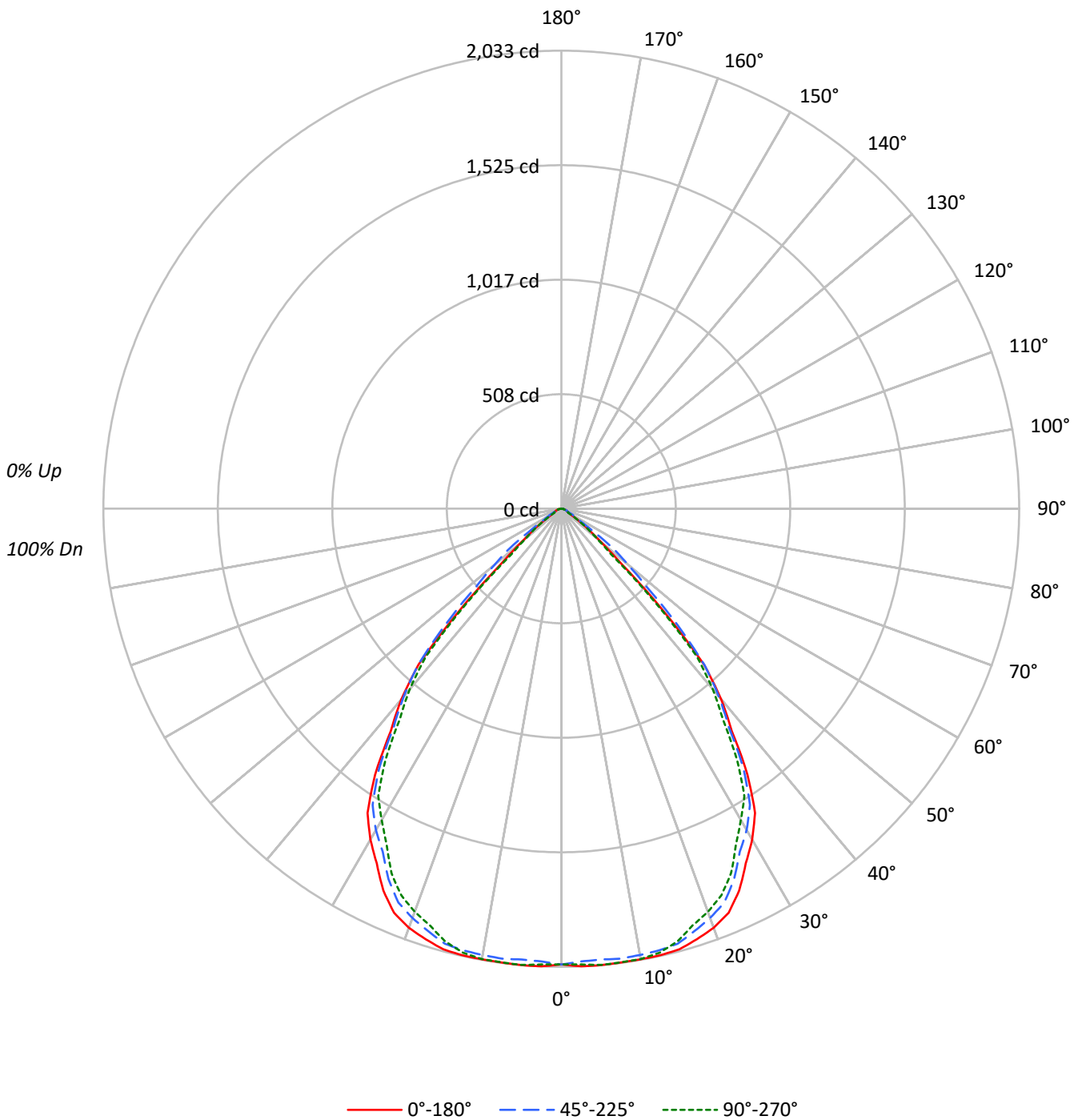
Lumens per Lamp: N/A
Luminaire Lumens: 3163.9 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.3
Input Voltage (V): 120
Input Current (A_{in}): 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	79	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°	32657	32657	32657
5°	32955	32545	32939
10°	33288	32970	33272
15°	33840	33404	33242
20°	34003	33203	32704
25°	33303	32320	31784
30°	31599	30695	29720
35°	28419	27827	26812
40°	23298	22951	22072
45°	14568	16584	13682
50°	5699	9668	5212
55°	2812	4504	2784
60°	1314	2160	1188
65°	1184	1261	1112
70°	1142	1190	1100
75°	1148	1148	1029
80°	1079	1079	986
85°	1074	908	908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	6.1
10°-20°	565.5	17.9
20°-30°	836.0	26.4
30°-40°	865.1	27.3
40°-50°	520.3	16.4
50°-60°	124.5	3.9
60°-70°	34.0	1.1
70°-80°	19.0	0.6
80°-90°	6.0	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°	1594.9	50.4
0°-40°	2459.9	77.8
0°-60°	3104.8	98.1
0°-90°	3163.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3163.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2033	2027	2008	2035	2032	194
15°	2024	2040	1998	1998	1989	571
25°	1869	1885	1814	1795	1784	855
35°	1442	1440	1412	1379	1360	885
45°	638	724	726	690	599	493
55°	100	112	160	106	99	100
65°	31	32	33	31	29	31
75°	18	18	18	17	16	19
85°	6	6	5	5	5	6
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.6	2022.6	2022.6	2022.6	2022.6
2.5°	2032.7	2027.4	2011.0	2027.9	2024.2
5°	2033.3	2026.7	2008.0	2035.2	2032.3
7.5°	2031.2	2028.3	2014.1	2034.5	2030.2
10°	2030.4	2031.3	2011.0	2032.2	2029.4
12.5°	2029.6	2037.4	2007.9	2024.5	2017.8
15°	2024.5	2039.8	1998.4	1998.2	1988.7
17.5°	2003.0	2021.1	1965.8	1950.6	1939.0
20°	1979.0	1997.0	1932.4	1908.1	1903.4
22.5°	1941.0	1960.5	1891.4	1864.6	1856.8
25°	1869.4	1884.6	1814.2	1794.6	1784.1
27.5°	1774.0	1782.4	1716.2	1693.8	1679.4
30°	1694.9	1698.7	1646.4	1616.8	1594.1
32.5°	1601.0	1604.8	1558.8	1530.8	1512.6
35°	1441.8	1439.9	1411.8	1379.3	1360.3
37.5°	1242.6	1245.3	1223.1	1197.4	1178.3
40°	1105.4	1107.2	1088.9	1052.0	1047.2
42.5°	937.8	966.3	941.5	912.7	890.5
45°	638.0	724.3	726.3	690.2	599.2
47.5°	360.3	458.5	515.3	411.9	301.4
50°	226.9	293.2	384.9	244.5	207.5
52.5°	161.0	194.7	290.3	172.0	152.4
55°	99.9	112.2	160.0	106.5	98.9
57.5°	59.3	72.0	90.9	72.0	60.1
60°	40.7	51.2	66.9	47.3	36.8
62.5°	35.3	39.7	53.0	37.3	33.7
65°	31.0	32.0	33.0	31.0	29.1
67.5°	27.3	28.3	27.5	27.3	25.6
70°	24.2	25.2	25.2	24.2	23.3
72.5°	21.9	22.8	22.1	21.9	20.2
75°	18.4	18.4	18.4	17.4	16.5
77.5°	13.9	14.9	13.9	13.9	13.0
80°	11.6	12.6	11.6	11.6	10.6
82.5°	9.4	9.5	9.4	9.3	8.3
85°	5.8	5.8	4.9	4.9	4.9
87.5°	1.6	2.3	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)