

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: P709923

Luminaire Tested: DL2R-BB-M-125D-940-UNV-STD-W-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709923
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2R-BB-M-125D-940-UNV-STD-W-4
Description: CORELITE DISCREET DL2R RECESSED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

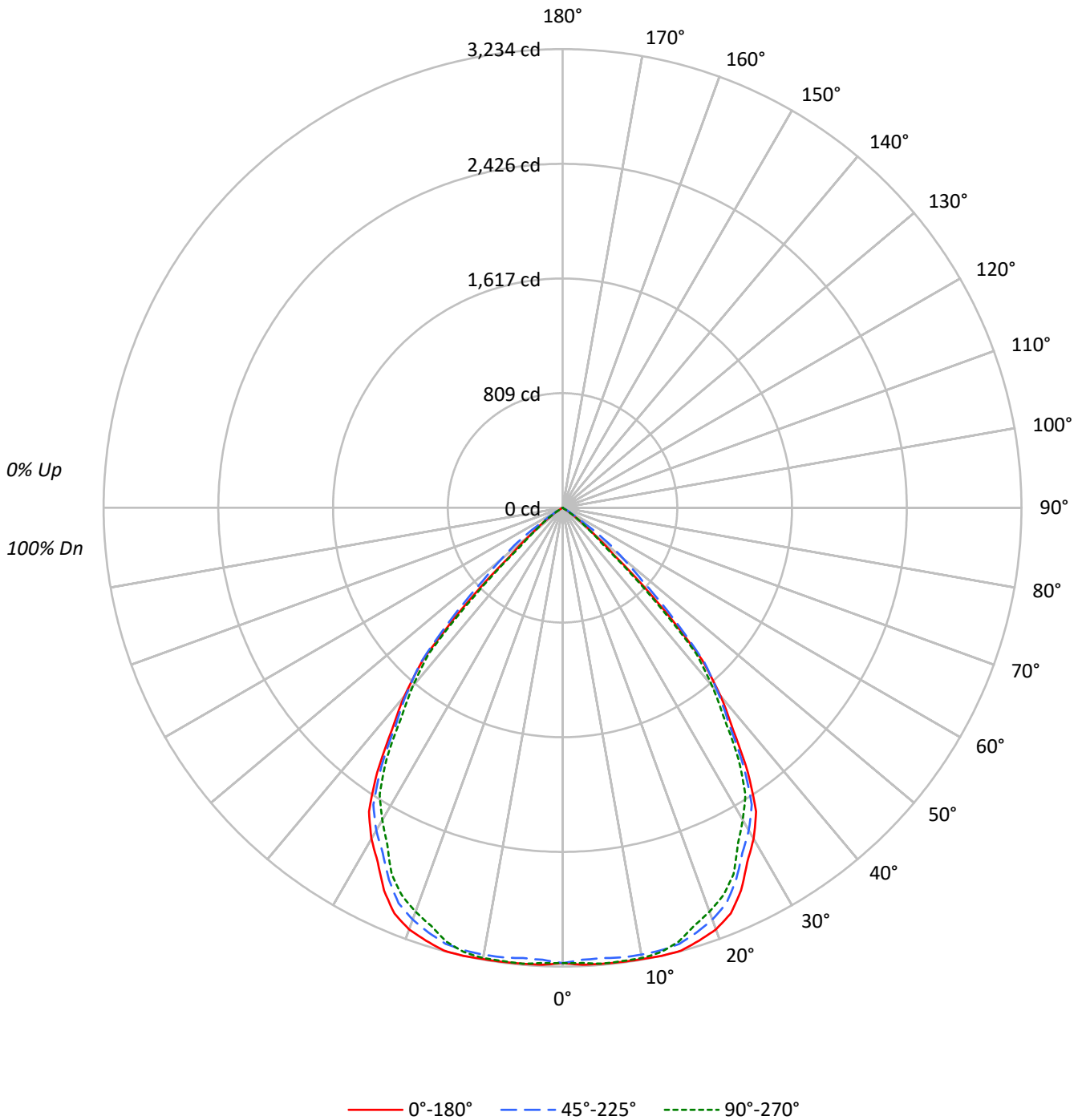
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4845.2 lumens
Efficiency: N/A
Efficacy: 106.3 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): 45.6
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	91	96	92	89	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	75	72	78	74	71	69
5	88	79	72	67	86	78	71	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	59	58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51818	51818	51818
5°	52284	51640	52284
10°	52952	52444	52841
15°	54019	53193	52901
20°	54330	53062	52046
25°	53014	51546	50767
30°	50200	48936	47344
35°	44892	43842	42618
40°	36560	36029	34558
45°	22318	25284	20105
50°	7282	14152	6405
55°	2486	4997	2564
60°	187	1440	61
65°	38	73	0
70°	0	47	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 25327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	6.3
10°-20°	901.9	18.6
20°-30°	1332.9	27.5
30°-40°	1369.8	28.3
40°-50°	791.2	16.3
50°-60°	137.1	2.8
60°-70°	5.1	0.1
70°-80°	0.1	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°	2541.9	52.5
0°-40°	3911.7	80.7
0°-60°	4840.0	99.9
0°-90°	4845.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4845.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3209	3209	3209	3209	3209	
5°	3226	3216	3186	3232	3226	308
15°	3232	3255	3182	3188	3165	910
25°	2976	3002	2893	2860	2850	1361
35°	2278	2279	2224	2190	2162	1401
45°	977	1109	1107	1048	880	747
55°	88	102	178	101	91	99
65°	1	1	2	1	0	1
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°	3209.4	3209.4	3209.4	3209.4	3209.4
2.5°	3224.2	3215.1	3189.3	3218.6	3211.7
5°	3225.9	3216.4	3186.2	3232.5	3225.9
7.5°	3229.0	3223.2	3197.2	3233.6	3223.0
10°	3229.8	3230.8	3198.8	3230.6	3223.0
12.5°	3234.5	3243.7	3195.7	3221.2	3208.2
15°	3231.7	3255.4	3182.3	3187.6	3164.8
17.5°	3199.2	3233.3	3139.4	3116.5	3088.1
20°	3162.0	3196.0	3088.2	3057.5	3029.1
22.5°	3096.0	3133.2	3017.7	2983.9	2957.7
25°	2975.8	3002.3	2893.4	2860.2	2849.7
27.5°	2817.6	2827.0	2742.7	2698.8	2674.4
30°	2692.6	2690.7	2624.8	2574.5	2539.4
32.5°	2538.2	2547.8	2481.2	2434.1	2398.3
35°	2277.6	2278.6	2224.3	2189.7	2162.2
37.5°	1973.6	1968.8	1931.3	1884.8	1869.3
40°	1734.6	1741.3	1709.4	1656.7	1639.6
42.5°	1457.7	1501.5	1479.0	1416.9	1396.1
45°	977.4	1109.2	1107.3	1048.2	880.5
47.5°	500.1	665.1	764.2	598.6	401.6
50°	289.9	394.2	563.4	310.9	255.0
52.5°	183.6	233.3	400.5	202.1	169.7
55°	88.3	102.5	177.5	100.6	91.1
57.5°	32.2	47.9	78.7	48.9	34.6
60°	5.8	20.1	44.6	13.3	1.9
62.5°	1.9	5.5	25.9	3.5	1.2
65°	1.0	1.0	1.9	0.9	0.0
67.5°	0.0	0.9	1.0	0.0	0.0
70°	0.0	0.9	1.0	0.0	0.0
72.5°	0.0	0.2	0.2	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)