

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P559646

Luminaire Tested: **DL2-BB-M-075U-125D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559646
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-11, G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-075U-125D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

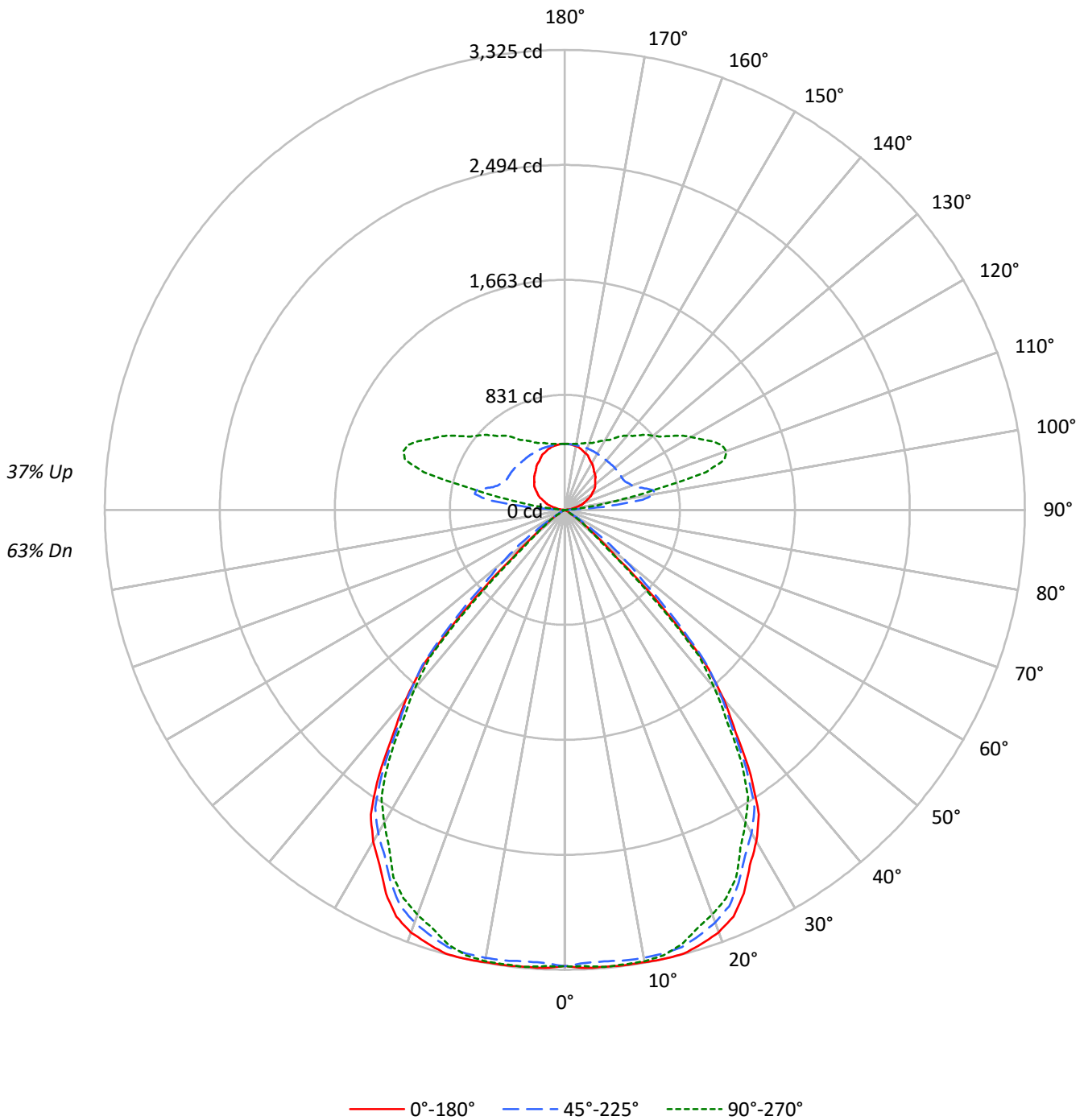
Lumens per Lamp: N/A
Luminaire Lumens: 7934.7 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.1
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	103	100	97	94	97	94	91	89	83	81	79	73	72	70	64	63	62	58
2	96	90	85	81	90	85	81	77	76	73	70	67	65	63	59	58	56	53
3	89	82	76	71	84	77	72	68	69	65	62	62	59	57	55	53	51	48
4	83	74	68	63	78	71	65	60	64	59	56	57	54	51	51	49	47	44
5	78	68	61	56	73	64	58	54	58	54	50	53	49	46	47	45	42	40
6	72	62	55	50	68	59	53	48	54	49	45	49	45	42	44	41	39	36
7	68	57	50	45	64	54	48	44	50	45	41	45	41	38	41	38	35	33
8	63	52	45	41	60	50	44	40	46	41	37	42	38	35	38	35	33	31
9	59	48	42	37	56	46	40	36	43	38	34	39	35	32	36	32	30	28
10	56	45	38	34	53	43	37	33	40	35	31	36	32	29	33	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	53276	53276	53276
5°	53754	53091	53754
10°	54441	53918	54326
15°	55539	54689	54389
20°	55855	54555	53508
25°	54503	52994	52194
30°	51611	50312	48675
35°	46156	45074	43816
40°	37589	37043	35529
45°	22946	25994	20669
50°	7488	14549	6586
55°	2553	5134	2638
60°	194	1482	65
65°	38	76	0
70°	0	47	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	4.0
10°-20°	927.2	11.7
20°-30°	1370.3	17.3
30°-40°	1408.3	17.7
40°-50°	813.5	10.3
50°-60°	140.9	1.8
60°-70°	5.3	0.1
70°-80°	0.1	0.0
80°-90°	0.6	0.0
90°-100°	180.4	2.3
100°-110°	597.9	7.5
110°-120°	593.4	7.5
120°-130°	483.3	6.1
130°-140°	392.8	5.0
140°-150°	305.1	3.8
150°-160°	219.8	2.8
160°-170°	134.6	1.7
170°-180°	45.5	0.6
0°-30°	2613.3	32.9
0°-40°	4021.6	50.7
0°-60°	4976.0	62.7
0°-90°	4982.0	62.8
90°-120°	1371.7	17.3
90°-150°	2552.9	32.2
90°-180°	2953.0	37.2
0°-180°	7934.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3300	3300	3300	3300	3300	
5°	3317	3307	3276	3323	3317	317
15°	3323	3347	3272	3277	3254	936
25°	3059	3087	2975	2940	2930	1399
35°	2342	2343	2287	2251	2223	1441
45°	1005	1140	1138	1078	905	768
55°	91	105	182	104	94	102
65°	1	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	4	4	1
95°	26	76	327	117	78	29
105°	105	149	598	1129	1056	110
115°	187	223	482	1003	1173	184
125°	261	290	473	788	929	232
135°	312	344	469	676	763	241
145°	362	389	468	582	637	227
155°	414	428	471	520	539	191
165°	454	459	473	492	497	128
175°	475	475	476	479	478	45
180°	477	477	477	477	477	



TEST NUMBER: P559646

CATALOG NUMBER: DL2-BB-M-075U-125D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3299.7	3299.7	3299.7	3299.7	3299.7
2.5°	3314.8	3305.5	3278.9	3309.1	3302.1
5°	3316.6	3306.9	3275.7	3323.4	3316.6
7.5°	3319.8	3313.8	3287.1	3324.5	3313.6
10°	3320.6	3321.6	3288.7	3321.4	3313.6
12.5°	3325.4	3334.9	3285.5	3311.7	3298.5
15°	3322.6	3347.0	3271.8	3277.2	3253.8
17.5°	3289.1	3324.2	3227.7	3204.1	3174.9
20°	3250.8	3285.9	3175.1	3143.5	3114.2
22.5°	3183.0	3221.2	3102.5	3067.8	3040.9
25°	3059.4	3086.7	2974.7	2940.5	2929.8
27.5°	2896.7	2906.5	2819.8	2774.7	2749.6
30°	2768.3	2766.4	2698.6	2646.9	2610.8
32.5°	2609.6	2619.4	2551.0	2502.5	2465.7
35°	2341.7	2342.6	2286.8	2251.3	2223.0
37.5°	2029.0	2024.2	1985.6	1937.8	1921.8
40°	1783.4	1790.2	1757.5	1703.3	1685.7
42.5°	1498.7	1543.7	1520.6	1456.7	1435.3
45°	1004.9	1140.3	1138.4	1077.7	905.2
47.5°	514.2	683.8	785.7	615.5	412.9
50°	298.1	405.3	579.2	319.7	262.2
52.5°	188.8	239.9	411.7	207.8	174.5
55°	90.7	105.3	182.4	103.5	93.7
57.5°	33.1	49.3	80.9	50.3	35.5
60°	6.0	20.6	45.9	13.7	2.0
62.5°	2.0	5.7	26.7	3.5	1.2
65°	1.0	1.0	2.0	1.0	0.0
67.5°	0.0	1.0	1.0	0.0	0.0
70°	0.0	1.0	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	0.2	0.6	0.8	0.8
90°	0.0	1.0	3.0	3.9	3.9
92.5°	7.9	30.5	89.9	29.1	24.5
95°	25.7	75.9	326.8	116.6	78.0
97.5°	47.2	99.7	570.5	332.7	210.3
100°	62.2	112.4	660.6	567.4	376.2
102.5°	78.8	127.5	655.0	867.1	655.0
105°	104.7	149.1	598.4	1128.9	1055.5
107.5°	131.1	170.7	544.1	1155.5	1211.3
110°	146.1	185.7	516.4	1129.2	1242.1



TEST NUMBER: P559646

CATALOG NUMBER: DL2-BB-M-075U-125D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.9	200.7	499.8	1082.5	1226.4
115°	186.6	223.3	481.9	1003.1	1173.0
117.5°	211.1	243.7	475.3	927.3	1105.5
120°	226.1	258.0	473.0	879.8	1052.6
122.5°	239.5	270.6	473.0	840.7	1000.4
125°	260.7	289.6	473.0	788.2	929.1
127.5°	278.1	306.4	471.8	748.4	868.9
130°	288.3	318.3	471.0	725.2	833.4
132.5°	297.8	328.5	470.2	706.0	803.3
135°	312.0	343.9	469.0	676.4	763.3
137.5°	327.4	358.1	467.8	647.7	724.4
140°	337.7	367.6	467.0	628.6	699.1
142.5°	347.2	376.3	467.8	609.5	672.2
145°	362.4	389.4	468.0	581.8	636.9
147.5°	378.8	401.4	468.2	558.4	599.4
150°	389.0	409.3	469.0	544.8	579.6
152.5°	398.5	418.0	469.8	533.6	561.4
155°	413.7	428.2	471.0	519.8	539.1
157.5°	428.5	439.7	472.2	510.0	523.7
160°	436.4	446.1	473.0	502.8	513.4
162.5°	444.3	451.7	473.0	498.0	506.3
165°	454.2	459.0	473.0	491.8	496.7
167.5°	463.3	465.8	474.0	486.3	488.8
170°	468.0	469.0	474.0	483.8	484.8
172.5°	471.2	472.2	474.7	481.5	481.7
175°	474.9	474.9	475.9	478.9	477.9
177.5°	476.9	476.9	476.1	477.7	476.1
180°	476.9	476.9	476.9	476.9	476.9

(END OF REPORT)