

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: P559645

Luminaire Tested: **DL2-BB-M-075U-125D-930-UNV-STD-W-4**

Issue Date: 3/5/2020

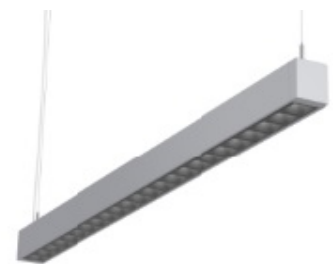
**Test Information**

Test Method: LM-79-08  
Report Number: P559645  
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-930-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**

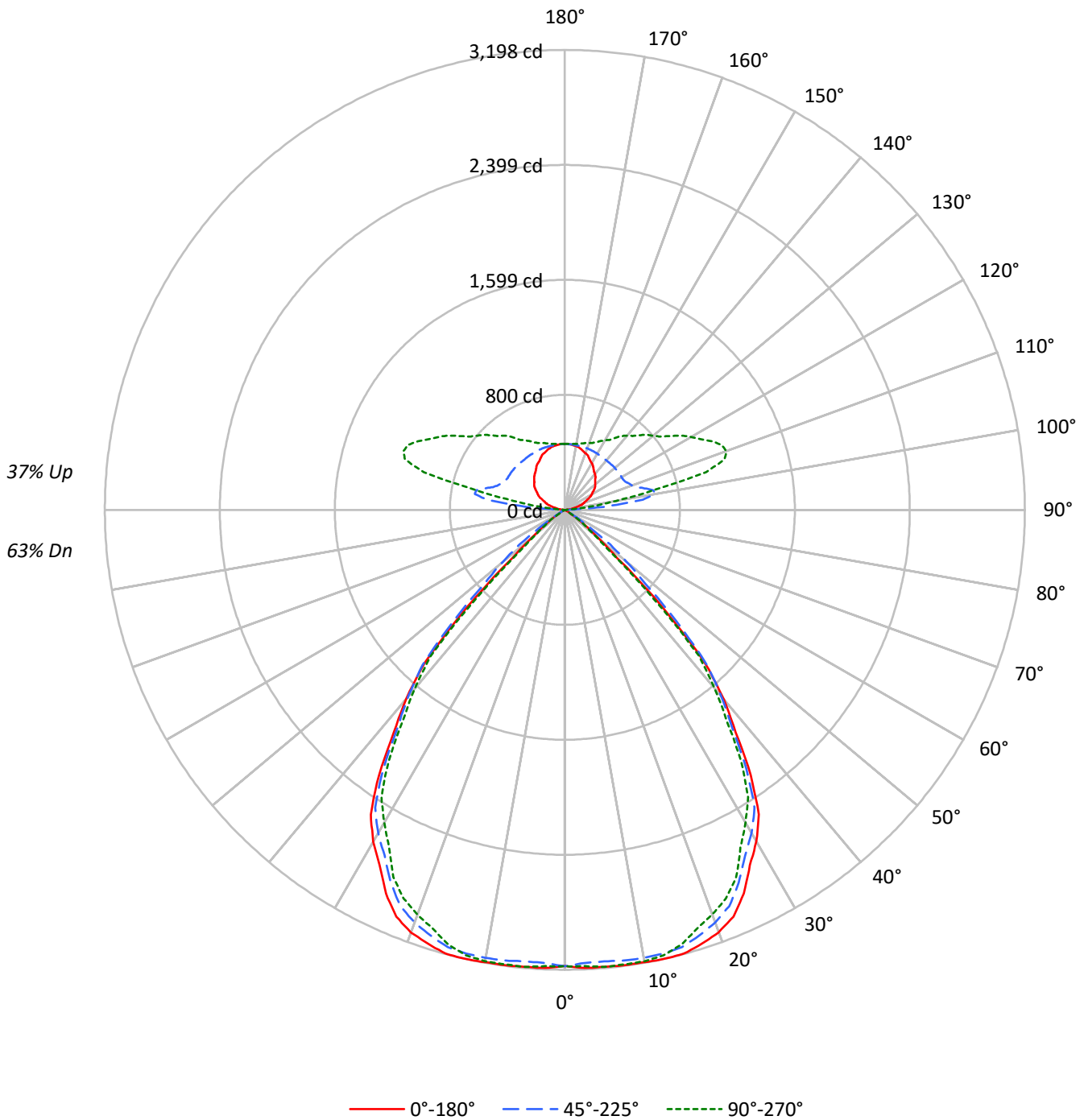
Lumens per Lamp: N/A  
Luminaire Lumens: 7631.6 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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°	51240	51240	51240
5°	51700	51063	51700
10°	52360	51859	52251
15°	53417	52600	52311
20°	53721	52471	51465
25°	52421	50969	50201
30°	49640	48389	46816
35°	44392	43353	42143
40°	36153	35628	34172
45°	22069	25001	19879
50°	7201	13993	6335
55°	2457	4940	2536
60°	187	1424	61
65°	38	73	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°	303.7	4.0
10°-20°	891.8	11.7
20°-30°	1318.0	17.3
30°-40°	1354.5	17.7
40°-50°	782.4	10.3
50°-60°	135.6	1.8
60°-70°	5.1	0.1
70°-80°	0.1	0.0
80°-90°	0.6	0.0
90°-100°	173.5	2.3
100°-110°	575.1	7.5
110°-120°	570.7	7.5
120°-130°	464.9	6.1
130°-140°	377.8	5.0
140°-150°	293.4	3.8
150°-160°	211.4	2.8
160°-170°	129.5	1.7
170°-180°	43.7	0.6
0°-30°	2513.5	32.9
0°-40°	3868.0	50.7
0°-60°	4786.0	62.7
0°-90°	4791.7	62.8
90°-120°	1319.3	17.3
90°-150°	2455.4	32.2
90°-180°	2840.0	37.2
0°-180°	7631.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3174	3174	3174	3174	3174	
5°	3190	3180	3151	3196	3190	305
15°	3196	3219	3147	3152	3130	900
25°	2942	2969	2861	2828	2818	1345
35°	2252	2253	2200	2165	2138	1386
45°	966	1097	1095	1036	871	739
55°	87	101	176	100	90	98
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°	25	73	314	112	75	28
105°	101	143	576	1086	1015	106
115°	180	215	463	965	1128	177
125°	251	279	455	758	894	223
135°	300	331	451	650	734	232
145°	348	374	450	560	612	219
155°	398	412	453	500	518	183
165°	437	442	455	473	478	123
175°	457	457	458	461	460	43
180°	459	459	459	459	459	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3173.6	3173.6	3173.6	3173.6	3173.6
2.5°	3188.2	3179.2	3153.7	3182.7	3175.9
5°	3189.9	3180.5	3150.6	3196.5	3189.9
7.5°	3193.0	3187.2	3161.5	3197.5	3187.0
10°	3193.7	3194.7	3163.1	3194.5	3187.0
12.5°	3198.4	3207.5	3160.0	3185.2	3172.5
15°	3195.7	3219.1	3146.8	3152.0	3129.5
17.5°	3163.5	3197.2	3104.4	3081.7	3053.6
20°	3126.6	3160.4	3053.8	3023.4	2995.3
22.5°	3061.4	3098.2	2984.0	2950.6	2924.7
25°	2942.5	2968.8	2861.0	2828.2	2817.9
27.5°	2786.1	2795.4	2712.0	2668.7	2644.6
30°	2662.6	2660.7	2595.5	2545.8	2511.1
32.5°	2509.9	2519.3	2453.6	2406.9	2371.5
35°	2252.2	2253.1	2199.5	2165.3	2138.1
37.5°	1951.5	1946.8	1909.7	1863.7	1848.4
40°	1715.3	1721.8	1690.4	1638.2	1621.3
42.5°	1441.5	1484.8	1462.5	1401.1	1380.5
45°	966.5	1096.8	1094.9	1036.5	870.6
47.5°	494.5	657.7	755.7	591.9	397.1
50°	286.7	389.8	557.1	307.5	252.2
52.5°	181.6	230.7	396.0	199.9	167.8
55°	87.3	101.3	175.5	99.5	90.1
57.5°	31.8	47.4	77.9	48.4	34.1
60°	5.8	19.8	44.1	13.2	1.9
62.5°	1.9	5.5	25.7	3.4	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	0.2	0.6	0.8	0.8
90°	0.0	0.9	2.8	3.8	3.8
92.5°	7.6	29.3	86.4	28.0	23.6
95°	24.7	73.0	314.3	112.2	75.0
97.5°	45.4	95.9	548.7	320.0	202.3
100°	59.8	108.1	635.3	545.7	361.8
102.5°	75.8	122.6	630.0	833.9	630.0
105°	100.7	143.4	575.5	1085.8	1015.2
107.5°	126.1	164.2	523.3	1111.4	1165.1
110°	140.6	178.6	496.7	1086.1	1194.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	155.7	193.1	480.7	1041.1	1179.5
115°	179.5	214.8	463.4	964.8	1128.2
117.5°	203.0	234.4	457.2	891.8	1063.3
120°	217.5	248.1	454.9	846.1	1012.4
122.5°	230.4	260.3	454.9	808.6	962.2
125°	250.7	278.6	454.9	758.1	893.6
127.5°	267.4	294.7	453.8	719.8	835.7
130°	277.3	306.1	453.0	697.5	801.5
132.5°	286.4	316.0	452.2	679.1	772.7
135°	300.1	330.7	451.1	650.5	734.1
137.5°	314.9	344.4	450.0	623.0	696.7
140°	324.8	353.6	449.2	604.6	672.4
142.5°	333.9	362.0	450.0	586.2	646.5
145°	348.5	374.5	450.1	559.6	612.5
147.5°	364.3	386.0	450.3	537.1	576.5
150°	374.2	393.7	451.1	524.0	557.5
152.5°	383.3	402.0	451.9	513.2	540.0
155°	397.9	411.8	453.0	500.0	518.5
157.5°	412.2	422.9	454.1	490.5	503.7
160°	419.8	429.0	454.9	483.6	493.8
162.5°	427.4	434.4	454.9	479.0	487.0
165°	436.9	441.5	454.9	473.0	477.7
167.5°	445.6	448.0	455.8	467.7	470.1
170°	450.1	451.1	455.8	465.4	466.3
172.5°	453.2	454.1	456.6	463.1	463.3
175°	456.8	456.8	457.7	460.6	459.6
177.5°	458.7	458.7	457.9	459.4	457.9
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)