

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: P559674

Luminaire Tested: **DL2-BB-M-125U-050D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559674
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-13, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-125U-050D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

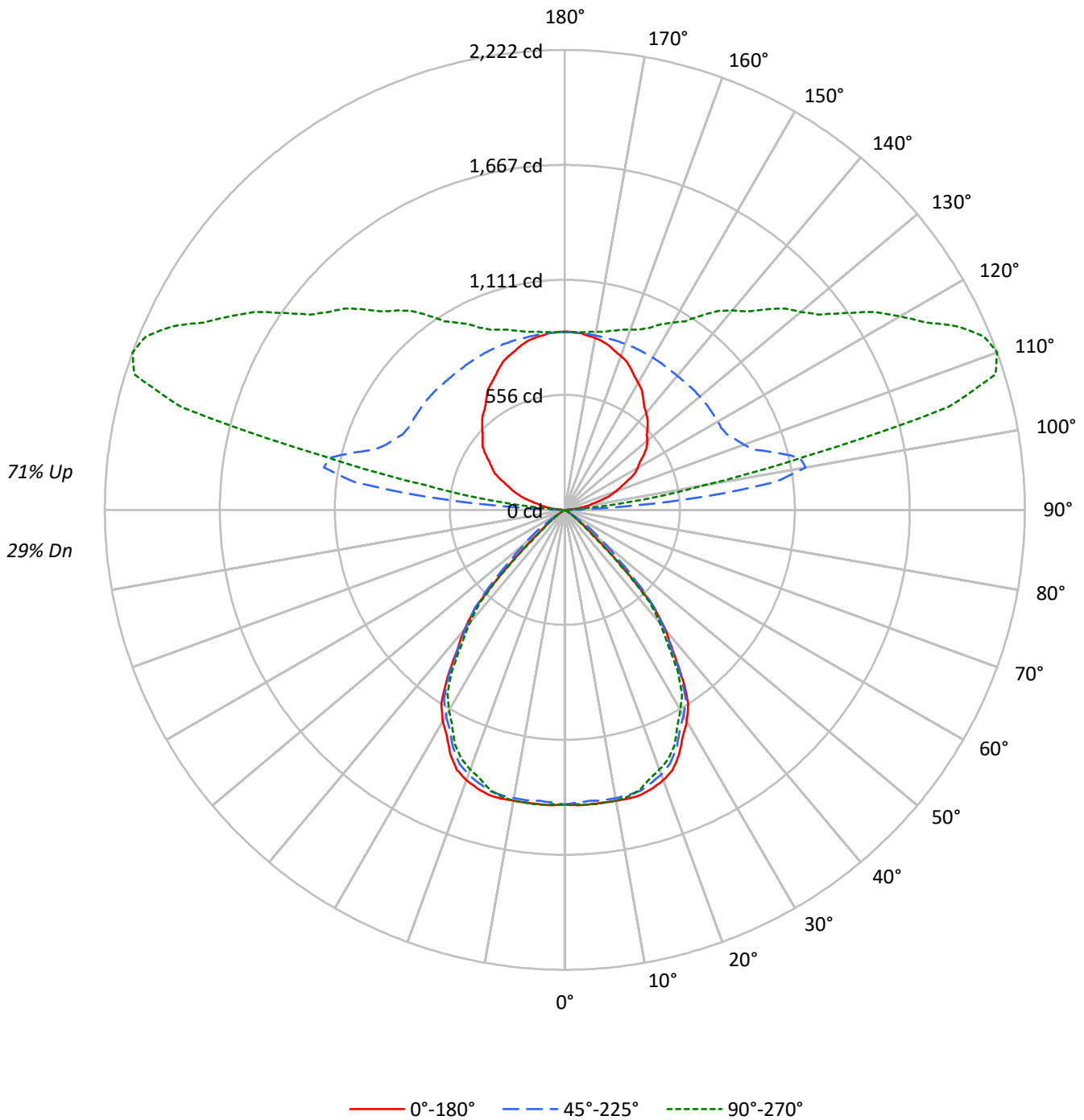
Lumens per Lamp: N/A
Luminaire Lumens: 7430.7 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	29
1	94	90	87	84	84	81	78	76	64	62	61	48	47	46	34	33	33	26
2	87	80	75	71	78	72	68	64	58	55	52	44	42	41	31	30	30	24
3	80	72	65	60	72	65	59	55	52	48	45	40	38	36	29	28	27	22
4	74	64	57	52	66	58	52	48	47	43	40	36	34	32	27	25	24	20
5	68	58	50	45	61	52	46	42	42	38	35	33	30	28	25	23	22	18
6	63	52	45	40	57	47	41	37	39	34	31	30	28	25	23	21	20	17
7	58	47	40	35	52	43	37	33	35	31	28	28	25	23	21	19	18	15
8	54	43	36	31	49	39	33	29	32	28	25	26	23	21	20	18	16	14
9	51	39	33	28	46	36	30	26	30	25	22	24	21	19	18	16	15	13
10	47	36	30	25	43	33	27	24	28	23	20	22	19	17	17	15	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22977	22977	22977
5°	23133	22877	23169
10°	23400	23192	23384
15°	23823	23505	23398
20°	23888	23380	22943
25°	23261	22694	22336
30°	21975	21382	20812
35°	19478	19249	18707
40°	15900	15677	15053
45°	9373	11065	8722
50°	3162	6167	2818
55°	1072	2204	1132
60°	103	649	36
65°	0	42	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.8
10°-20°	398.0	5.4
20°-30°	585.7	7.9
30°-40°	598.4	8.1
40°-50°	344.1	4.6
50°-60°	60.2	0.8
60°-70°	2.2	0.0
70°-80°	0.0	0.0
80°-90°	1.2	0.0
90°-100°	328.9	4.4
100°-110°	1070.9	14.4
110°-120°	1059.3	14.3
120°-130°	865.7	11.6
130°-140°	707.5	9.5
140°-150°	551.1	7.4
150°-160°	397.2	5.3
160°-170°	242.8	3.3
170°-180°	81.9	1.1
0°-30°	1119.7	15.1
0°-40°	1718.2	23.1
0°-60°	2122.4	28.6
0°-90°	2125.8	28.6
90°-120°	2459.0	33.1
90°-150°	4583.3	61.7
90°-180°	5305.0	71.4
0°-180°	7430.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1427	1424	1412	1432	1430	136
15°	1425	1438	1406	1407	1400	401
25°	1306	1317	1274	1260	1254	597
35°	988	993	977	960	949	610
45°	410	478	485	460	382	321
55°	38	45	78	44	40	43
65°	0	0	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	3	7	6	6	2
95°	44	135	603	215	132	52
105°	182	263	1061	2026	1919	194
115°	336	402	864	1781	2095	333
125°	468	521	852	1406	1657	416
135°	565	624	848	1214	1369	436
145°	660	709	846	1045	1144	413
155°	753	778	851	936	971	347
165°	822	829	854	886	896	231
175°	857	857	857	863	861	81
180°	860	860	860	860	860	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.1	1423.1	1423.1	1423.1	1423.1
2.5°	1429.0	1425.7	1414.6	1427.3	1424.0
5°	1427.3	1424.2	1411.5	1431.5	1429.5
7.5°	1426.5	1424.0	1415.5	1433.0	1428.8
10°	1427.3	1427.3	1414.6	1430.4	1426.3
12.5°	1429.0	1433.2	1412.1	1424.5	1418.7
15°	1425.2	1437.6	1406.2	1407.1	1399.8
17.5°	1409.8	1426.5	1383.5	1373.3	1362.4
20°	1390.3	1407.9	1360.7	1344.6	1335.3
22.5°	1360.7	1377.4	1327.7	1314.1	1304.0
25°	1305.7	1317.0	1273.9	1260.0	1253.8
27.5°	1233.7	1239.5	1202.0	1187.6	1177.2
30°	1178.7	1178.7	1146.9	1130.7	1116.3
32.5°	1110.1	1106.8	1086.0	1067.3	1053.6
35°	988.2	993.4	976.6	960.5	949.1
37.5°	853.4	858.4	841.2	822.8	814.9
40°	754.4	758.5	743.8	724.5	714.2
42.5°	632.5	654.9	641.4	620.4	606.7
45°	410.5	477.8	484.6	459.6	382.0
47.5°	213.9	284.3	336.0	256.6	179.9
50°	125.9	171.4	245.5	140.1	112.2
52.5°	81.0	100.9	172.7	89.6	75.8
55°	38.1	45.3	78.3	44.3	40.2
57.5°	14.2	21.2	35.3	21.4	15.4
60°	3.2	9.4	20.1	6.2	1.1
62.5°	0.6	2.7	11.6	1.2	0.2
65°	0.0	0.0	1.1	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	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	0.6	1.5	1.3	1.3
90°	0.0	3.1	7.4	6.3	6.3
92.5°	15.2	54.7	174.9	57.7	44.4
95°	44.4	135.4	602.9	214.9	132.2
97.5°	83.6	176.2	1023.2	623.1	380.3
100°	108.9	199.9	1181.4	1053.5	683.2
102.5°	137.7	225.4	1161.9	1558.5	1185.0
105°	181.9	262.6	1060.8	2026.1	1918.6
107.5°	229.7	305.6	964.8	2066.7	2180.7
110°	264.4	333.7	919.1	2016.3	2222.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	361.6	890.3	1925.4	<i>2190.8</i>
115°	336.3	401.5	864.1	1780.8	<i>2095.2</i>
117.5°	380.8	439.5	853.9	1648.4	<i>1961.3</i>
120°	406.1	464.0	851.4	1566.9	<i>1869.9</i>
122.5°	430.7	487.8	852.3	1496.2	<i>1778.5</i>
125°	467.5	521.3	852.5	1406.0	<i>1657.3</i>
127.5°	499.0	554.0	852.3	1338.5	<i>1548.0</i>
130°	519.3	575.1	851.4	1299.9	<i>1487.1</i>
132.5°	537.1	595.4	850.6	1264.1	<i>1439.7</i>
135°	564.8	623.7	848.2	1213.5	<i>1368.6</i>
137.5°	591.9	651.2	845.9	1162.1	<i>1299.8</i>
140°	611.3	668.2	845.1	1127.2	<i>1257.5</i>
142.5°	629.9	684.3	845.1	1093.9	<i>1210.2</i>
145°	660.0	708.6	846.1	1045.1	<i>1144.4</i>
147.5°	689.2	731.4	847.6	1003.5	<i>1080.3</i>
150°	708.6	745.9	849.3	978.7	<i>1043.9</i>
152.5°	728.1	758.7	850.1	959.8	<i>1011.7</i>
155°	753.0	777.9	851.4	935.8	<i>970.9</i>
157.5°	776.7	794.5	852.7	918.0	<i>942.6</i>
160°	791.1	805.6	853.5	906.8	<i>926.5</i>
162.5°	803.8	815.0	853.5	897.4	<i>912.1</i>
165°	821.8	829.0	853.5	885.5	<i>895.8</i>
167.5°	834.5	839.0	853.7	876.5	<i>881.9</i>
170°	842.9	845.0	854.6	870.5	<i>872.6</i>
172.5°	848.9	850.1	856.3	867.0	<i>866.6</i>
175°	856.7	856.7	856.7	863.0	<i>860.9</i>
177.5°	859.9	859.0	858.2	862.3	<i>859.0</i>
180°	859.9	859.9	859.9	859.9	<i>859.9</i>

(END OF REPORT)