

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: P559613

Luminaire Tested: **DL2-BB-M-025U-050D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559613
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, 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-025U-050D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

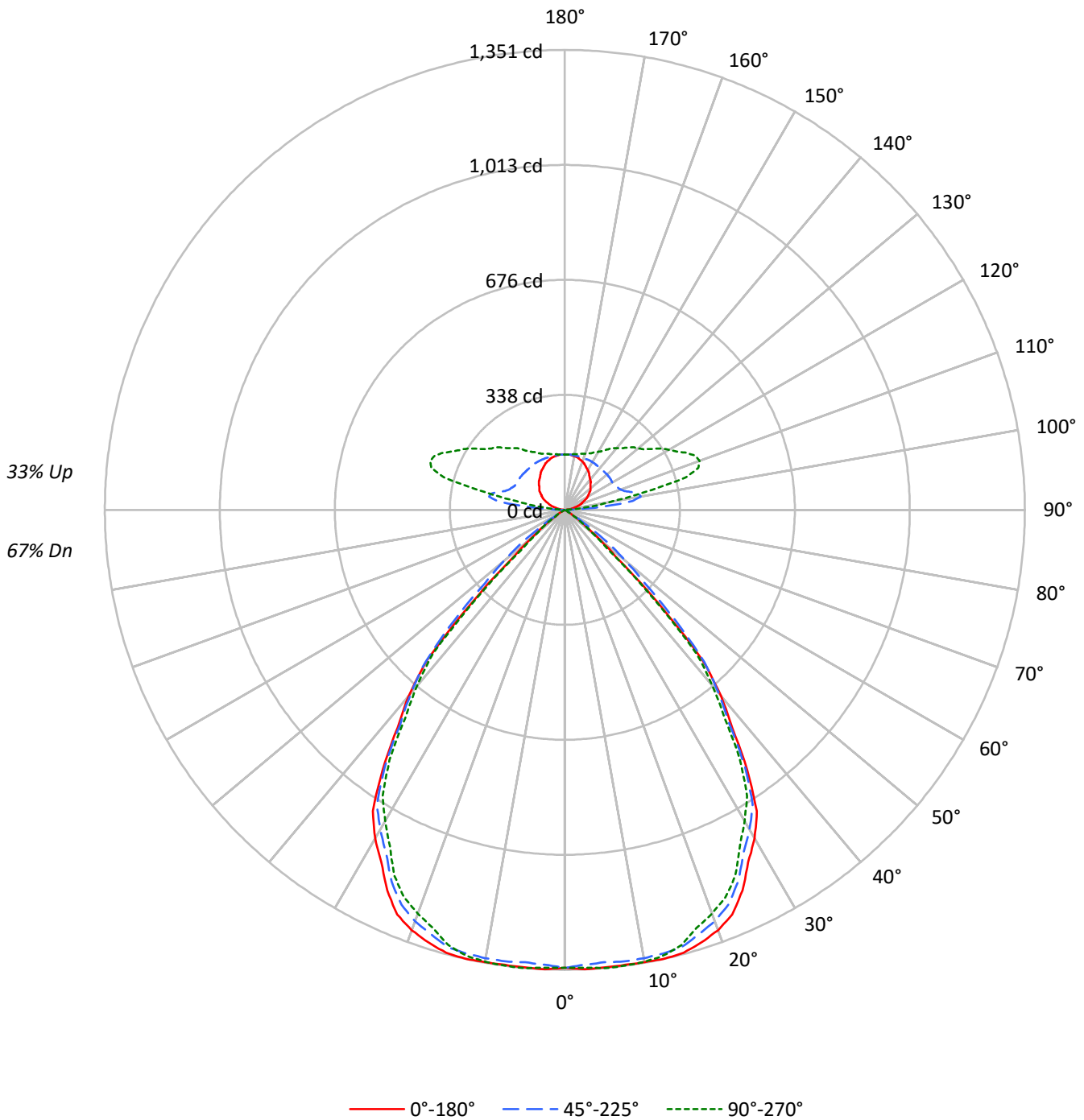
Lumens per Lamp: N/A
Luminaire Lumens: 3020.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 25.5
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	81	81	81	71	71	71	67	67	67	67	
1	104	101	98	95	98	95	93	90	85	83	81	76	74	73	67	66	65	61	61	61	61	
2	97	91	86	82	92	87	82	79	78	75	72	70	68	66	62	61	59	56	56	56	56	
3	91	83	77	72	86	79	74	69	71	67	64	64	61	59	58	56	54	51	51	51	51	
4	84	75	69	64	80	72	66	62	65	61	57	59	56	53	54	51	49	46	46	46	46	
5	79	69	62	57	75	66	60	55	60	55	52	55	51	48	50	47	45	42	42	42	42	
6	73	63	56	51	70	60	54	50	55	50	47	51	47	44	46	43	41	39	39	39	39	
7	69	58	51	46	65	56	49	45	51	46	42	47	43	40	43	40	37	35	35	35	35	
8	64	53	47	42	61	51	45	41	47	42	39	44	40	36	40	37	34	32	32	32	32	
9	60	49	43	38	57	48	41	37	44	39	35	41	37	34	38	34	32	30	30	30	30	
10	57	46	39	35	54	44	38	34	41	36	33	38	34	31	35	32	29	28	28	28	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21719	21719	21719
5°	21867	21624	21900
10°	22120	21923	22104
15°	22519	22218	22118
20°	22581	22100	21687
25°	21987	21453	21114
30°	20773	20213	19673
35°	18413	18197	17682
40°	15030	14819	14229
45°	8862	10460	8245
50°	2989	5827	2663
55°	1013	2083	1070
60°	97	614	32
65°	0	38	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°	128.5	4.3
10°-20°	376.2	12.5
20°-30°	553.7	18.3
30°-40°	565.7	18.7
40°-50°	325.2	10.8
50°-60°	56.9	1.9
60°-70°	2.1	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	65.9	2.2
100°-110°	205.1	6.8
110°-120°	200.7	6.6
120°-130°	163.8	5.4
130°-140°	134.0	4.4
140°-150°	104.6	3.5
150°-160°	75.5	2.5
160°-170°	46.1	1.5
170°-180°	15.6	0.5
0°-30°	1058.5	35.0
0°-40°	1624.1	53.8
0°-60°	2006.2	66.4
0°-90°	2008.8	66.5
90°-120°	471.7	15.6
90°-150°	874.1	28.9
90°-180°	1011.0	33.5
0°-180°	3020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1349	1346	1334	1353	1351	129
15°	1347	1359	1329	1330	1323	379
25°	1234	1245	1204	1191	1185	564
35°	934	939	923	908	897	576
45°	388	452	458	434	361	303
55°	36	43	74	42	38	41
65°	0	0	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	1	3	3	3	0
95°	9	27	121	45	29	10
105°	36	51	202	386	368	38
115°	64	76	164	338	396	63
125°	89	99	162	266	312	79
135°	107	119	161	230	258	83
145°	125	135	161	198	216	79
155°	143	148	162	178	184	66
165°	157	158	163	168	170	44
175°	163	163	163	164	163	15
180°	163	163	163	163	163	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.2	1345.2	1345.2	1345.2	1345.2
2.5°	1350.8	1347.7	1337.2	1349.2	1346.0
5°	1349.2	1346.3	1334.2	1353.2	1351.2
7.5°	1348.4	1346.1	1338.0	1354.5	1350.6
10°	1349.2	1349.2	1337.2	1352.1	1348.2
12.5°	1350.8	1354.7	1334.8	1346.5	1341.0
15°	1347.2	1359.0	1329.2	1330.1	1323.2
17.5°	1332.6	1348.5	1307.8	1298.2	1287.8
20°	1314.2	1330.8	1286.2	1271.0	1262.2
22.5°	1286.2	1302.1	1255.0	1242.2	1232.6
25°	1234.2	1245.0	1204.2	1191.1	1185.2
27.5°	1166.2	1171.7	1136.2	1122.6	1112.8
30°	1114.2	1114.2	1084.2	1068.9	1055.2
32.5°	1049.4	1046.2	1026.6	1008.9	996.0
35°	934.2	939.0	923.2	907.9	897.1
37.5°	806.7	811.4	795.1	777.8	770.3
40°	713.1	717.0	703.1	684.9	675.1
42.5°	597.9	619.0	606.3	586.4	573.5
45°	388.1	451.6	458.1	434.4	361.1
47.5°	202.2	268.7	317.7	242.6	170.0
50°	119.0	162.0	232.0	132.4	106.0
52.5°	76.6	95.4	163.2	84.7	71.6
55°	36.0	42.9	74.0	41.9	38.0
57.5°	13.4	20.1	33.4	20.3	14.6
60°	3.0	8.9	19.0	5.9	1.0
62.5°	0.6	2.6	11.0	1.2	0.2
65°	0.0	0.0	1.0	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	0.2	0.6	0.6	0.6
90°	0.0	1.0	3.0	3.0	3.0
92.5°	3.2	11.2	38.2	12.5	10.2
95°	9.0	26.6	121.0	44.6	29.0
97.5°	16.4	34.6	200.3	124.7	78.6
100°	22.0	38.6	225.9	211.3	141.0
102.5°	27.6	43.4	221.1	301.8	236.9
105°	36.0	50.7	201.9	385.5	367.9
107.5°	44.4	58.1	183.5	391.9	411.3
110°	50.0	63.7	173.9	382.7	420.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.6	68.5	169.1	366.2	414.5
115°	64.0	75.7	163.9	338.2	395.9
117.5°	72.2	82.9	161.7	311.4	370.5
120°	77.0	87.7	160.9	296.2	352.9
122.5°	81.8	92.5	161.7	283.3	335.3
125°	89.0	98.7	161.9	266.0	311.9
127.5°	94.8	104.7	161.9	253.0	292.1
130°	98.0	108.7	161.9	245.7	280.9
132.5°	102.0	112.7	161.1	239.3	272.1
135°	107.0	118.7	160.9	229.6	257.9
137.5°	112.8	123.5	160.9	219.9	245.7
140°	116.0	126.7	160.9	213.5	236.9
142.5°	120.0	129.9	160.9	207.0	228.1
145°	125.0	134.7	160.9	198.3	215.9
147.5°	131.0	139.4	161.9	190.3	204.1
150°	135.0	141.8	161.9	186.2	196.9
152.5°	138.2	144.2	161.9	182.1	191.3
155°	143.0	147.8	161.9	178.1	183.9
157.5°	147.8	151.5	161.9	174.4	178.1
160°	151.0	153.9	161.9	172.0	174.9
162.5°	153.3	155.5	161.9	170.4	172.5
165°	156.9	157.9	162.9	168.0	169.9
167.5°	159.1	159.3	161.9	166.6	167.5
170°	159.9	160.9	161.9	165.0	165.9
172.5°	161.5	161.7	162.7	164.2	164.3
175°	162.9	162.9	162.9	163.9	162.9
177.5°	162.9	162.9	162.9	162.9	162.9
180°	162.9	162.9	162.9	162.9	162.9

(END OF REPORT)