

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: P559614

Luminaire Tested: **DL2-BB-M-025U-050D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559614
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-940-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

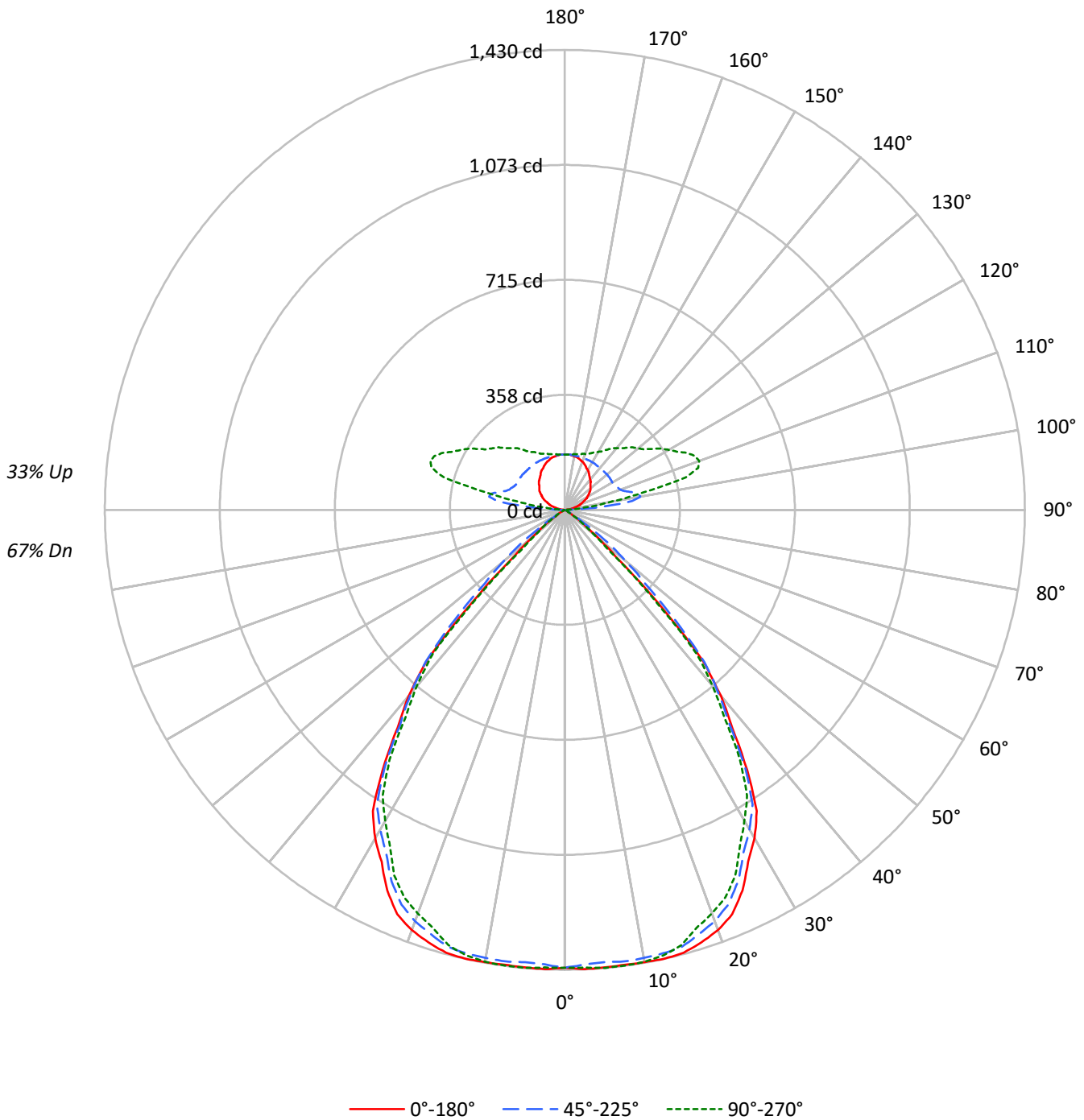
Lumens per Lamp: N/A
Luminaire Lumens: 3194.5 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	63	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	66	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°	22985	22985	22985
5°	23141	22883	23175
10°	23409	23200	23391
15°	23831	23512	23407
20°	23897	23386	22950
25°	23268	22702	22344
30°	21983	21390	20817
35°	19486	19255	18713
40°	15907	15683	15057
45°	9378	11070	8725
50°	3165	6169	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	4.3
10°-20°	398.2	12.5
20°-30°	585.9	18.3
30°-40°	598.6	18.7
40°-50°	344.2	10.8
50°-60°	60.2	1.9
60°-70°	2.2	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	69.7	2.2
100°-110°	216.8	6.8
110°-120°	212.1	6.6
120°-130°	173.1	5.4
130°-140°	141.6	4.4
140°-150°	110.5	3.5
150°-160°	79.8	2.5
160°-170°	48.8	1.5
170°-180°	16.4	0.5
0°-30°	1120.1	35.1
0°-40°	1718.7	53.8
0°-60°	2123.1	66.5
0°-90°	2125.8	66.5
90°-120°	498.5	15.6
90°-150°	923.8	28.9
90°-180°	1069.0	33.5
0°-180°	3194.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1428	1425	1412	1432	1430	136
15°	1426	1438	1407	1408	1400	402
25°	1306	1318	1274	1260	1254	597
35°	989	994	977	961	949	610
45°	411	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	1	3	3	3	0
95°	10	28	128	47	31	11
105°	38	54	213	407	389	40
115°	68	80	173	357	418	67
125°	94	104	171	281	330	83
135°	113	125	170	243	273	87
145°	132	142	170	210	228	83
155°	151	156	171	188	194	70
165°	166	167	172	178	180	47
175°	172	172	172	173	172	16
180°	172	172	172	172	172	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.6	1423.6	1423.6	1423.6	1423.6
2.5°	1429.5	1426.2	1415.1	1427.7	1424.4
5°	1427.8	1424.7	1411.9	1432.0	1429.9
7.5°	1427.0	1424.5	1416.0	1433.4	1429.3
10°	1427.8	1427.8	1415.1	1430.9	1426.7
12.5°	1429.5	1433.6	1412.6	1424.9	1419.1
15°	1425.7	1438.1	1406.6	1407.5	1400.3
17.5°	1410.2	1427.0	1384.0	1373.8	1362.8
20°	1390.8	1408.4	1361.1	1345.0	1335.7
22.5°	1361.1	1377.9	1328.1	1314.5	1304.4
25°	1306.1	1317.5	1274.3	1260.4	1254.2
27.5°	1234.1	1239.9	1202.4	1187.9	1177.6
30°	1179.1	1179.1	1147.3	1131.1	1116.6
32.5°	1110.5	1107.2	1086.4	1067.6	1054.0
35°	988.6	993.7	976.9	960.8	949.4
37.5°	853.7	858.7	841.4	823.1	815.2
40°	754.7	758.8	744.1	724.8	714.4
42.5°	632.7	655.1	641.6	620.6	606.9
45°	410.7	477.9	484.8	459.7	382.1
47.5°	214.0	284.4	336.2	256.7	179.9
50°	126.0	171.5	245.6	140.1	112.2
52.5°	81.1	100.9	172.7	89.7	75.8
55°	38.1	45.3	78.3	44.4	40.2
57.5°	14.2	21.2	35.4	21.5	15.5
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	0.2	0.6	0.6	0.6
90°	0.0	1.0	3.2	3.2	3.2
92.5°	3.4	11.9	40.4	13.3	10.8
95°	9.5	28.1	127.8	47.2	30.6
97.5°	17.3	36.5	211.7	131.8	83.0
100°	23.2	40.8	238.8	223.3	149.0
102.5°	29.2	45.9	233.7	319.0	250.4
105°	38.0	53.5	213.4	407.4	388.8
107.5°	46.9	61.4	194.0	414.2	434.6
110°	52.8	67.3	183.8	404.5	444.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.7	72.4	178.8	387.0	438.0
115°	67.6	80.0	173.3	357.4	418.4
117.5°	76.3	87.6	170.9	329.1	391.5
120°	81.3	92.7	170.1	313.0	372.9
122.5°	86.4	97.8	170.9	299.4	354.3
125°	94.0	104.4	171.1	281.1	329.6
127.5°	100.2	110.7	171.1	267.4	308.7
130°	103.5	114.9	171.1	259.7	296.9
132.5°	107.8	119.1	170.3	252.9	287.6
135°	113.0	125.4	170.1	242.6	272.6
137.5°	119.2	130.5	170.1	232.4	259.7
140°	122.6	133.9	170.1	225.6	250.4
142.5°	126.8	137.3	170.1	218.8	241.1
145°	132.1	142.4	170.1	209.6	228.2
147.5°	138.4	147.3	171.1	201.1	215.7
150°	142.6	149.9	171.1	196.8	208.1
152.5°	146.0	152.4	171.1	192.5	202.2
155°	151.1	156.2	171.1	188.2	194.4
157.5°	156.1	160.1	171.1	184.3	188.3
160°	159.5	162.6	171.1	181.8	184.9
162.5°	162.1	164.3	171.1	180.1	182.3
165°	165.9	166.9	172.2	177.5	179.6
167.5°	168.2	168.4	171.1	176.0	177.1
170°	169.0	170.1	171.1	174.3	175.4
172.5°	170.7	170.9	172.0	173.5	173.7
175°	172.2	172.2	172.2	173.2	172.2
177.5°	172.2	172.2	172.2	172.2	172.2
180°	172.2	172.2	172.2	172.2	172.2

(END OF REPORT)