

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: P559620

Luminaire Tested: **DL2-BB-M-025U-100D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559620
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-BB-M-025U-100D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

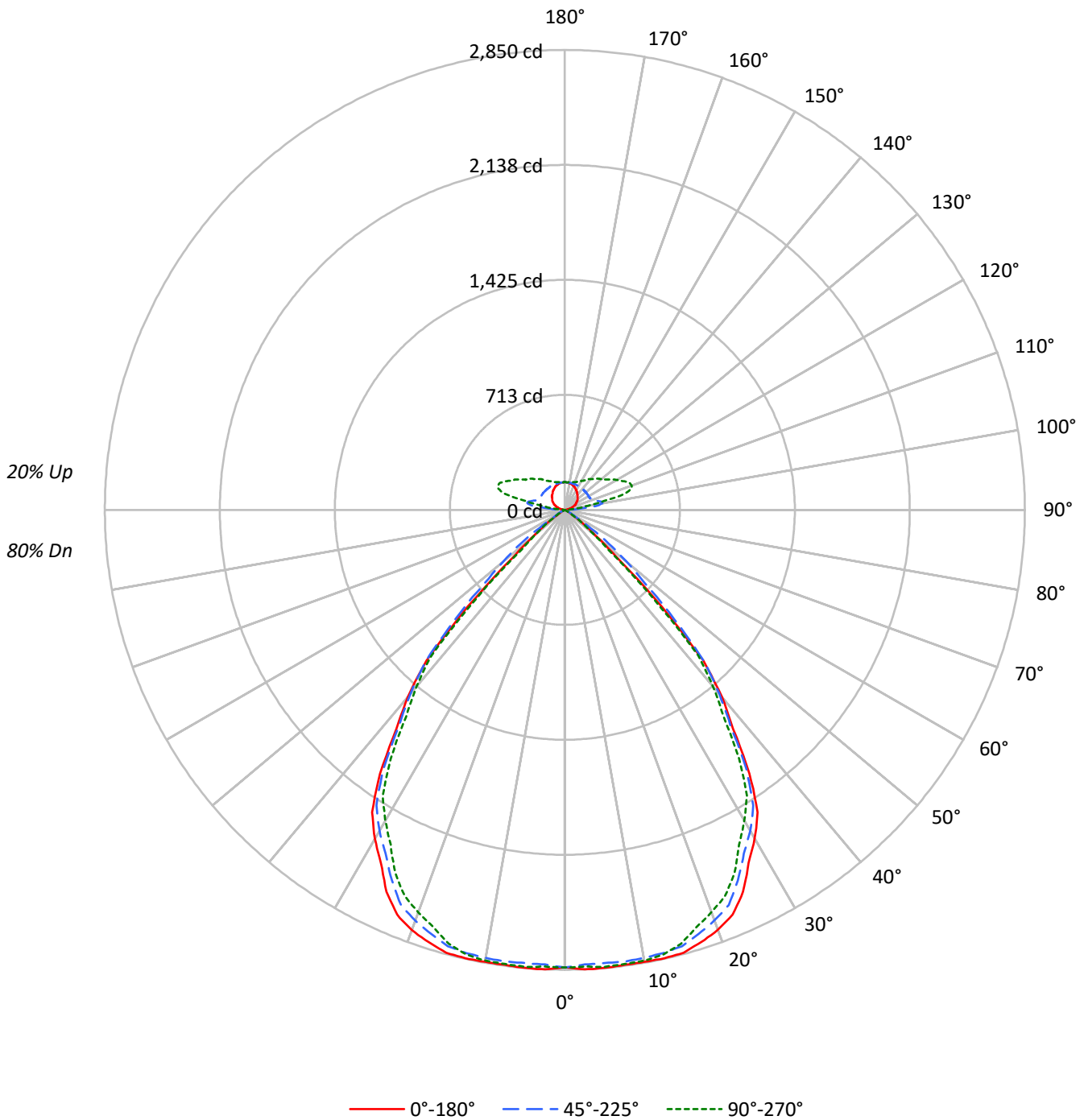
Lumens per Lamp: N/A
Luminaire Lumens: 5303.8 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.6
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	108	104	101	99	103	100	98	95	92	91	89	85	84	83	79	78	77	74
2	101	95	90	86	97	92	87	84	85	82	79	79	77	74	74	72	70	67
3	94	87	81	76	91	84	79	74	78	74	71	73	70	67	68	66	64	61
4	88	79	73	68	85	77	71	67	72	67	64	68	64	61	64	60	58	56
5	82	73	66	61	79	71	64	60	66	61	57	63	58	55	59	56	53	51
6	77	67	60	55	74	65	59	54	61	56	52	58	54	50	55	51	48	46
7	72	62	55	50	70	60	54	49	57	51	47	54	49	46	51	47	44	42
8	68	57	50	46	66	56	49	45	53	47	43	50	46	42	48	44	41	39
9	64	53	46	42	62	52	45	41	49	44	40	47	42	39	45	41	38	36
10	60	49	43	38	58	48	42	38	46	40	37	44	39	36	42	38	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45786	45786	45786
5°	46185	45686	46065
10°	46632	46214	46509
15°	47490	46798	46514
20°	47611	46551	45603
25°	46545	45163	44274
30°	43876	42826	41460
35°	39309	38617	37067
40°	31889	31352	30119
45°	19409	22005	17420
50°	6192	12436	5657
55°	2153	4515	2213
60°	171	1305	36
65°	0	80	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°	271.0	5.1
10°-20°	792.5	14.9
20°-30°	1168.1	22.0
30°-40°	1196.2	22.6
40°-50°	689.3	13.0
50°-60°	120.7	2.3
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	69.2	1.3
100°-110°	215.2	4.1
110°-120°	210.5	4.0
120°-130°	171.8	3.2
130°-140°	140.6	2.7
140°-150°	109.7	2.1
150°-160°	79.2	1.5
160°-170°	48.4	0.9
170°-180°	16.3	0.3
0°-30°	2231.6	42.1
0°-40°	3427.8	64.6
0°-60°	4237.9	79.9
0°-90°	4243.0	80.0
90°-120°	494.8	9.3
90°-150°	917.0	17.3
90°-180°	1061.0	20.0
0°-180°	5303.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2836	2836	2836	2836	2836	
5°	2850	2843	2819	2852	2842	272
15°	2841	2864	2800	2799	2783	800
25°	2613	2632	2535	2512	2485	1192
35°	1994	1983	1959	1912	1881	1224
45°	850	951	964	916	763	651
55°	76	92	160	87	79	85
65°	0	1	2	1	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	28	127	47	30	11
105°	38	53	212	404	386	40
115°	67	79	172	355	415	66
125°	93	104	170	279	327	83
135°	112	124	169	241	271	87
145°	131	141	169	208	226	82
155°	150	155	170	187	193	69
165°	165	166	171	176	178	46
175°	171	171	171	172	171	16
180°	171	171	171	171	171	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2835.8	2835.8	2835.8	2835.8	2835.8
2.5°	2850.2	2842.8	2820.5	2843.2	2833.2
5°	2849.6	2843.4	2818.8	2852.5	2842.2
7.5°	2844.3	2842.8	2823.9	2850.4	2838.5
10°	2844.3	2849.5	2818.8	2846.2	2836.8
12.5°	2846.0	2857.8	2813.7	2835.1	2821.5
15°	2841.1	2864.0	2799.7	2799.3	2782.7
17.5°	2809.2	2836.2	2755.2	2733.3	2711.0
20°	2771.0	2802.1	2709.3	2678.0	2654.1
22.5°	2715.7	2746.1	2651.5	2615.9	2592.0
25°	2612.7	2632.4	2535.1	2512.2	2485.2
27.5°	2466.5	2478.1	2402.5	2362.8	2338.5
30°	2353.4	2361.7	2297.1	2253.9	2223.8
32.5°	2222.5	2219.2	2172.2	2128.2	2099.7
35°	1994.3	1982.9	1959.2	1911.8	1880.6
37.5°	1713.6	1711.5	1688.1	1647.0	1614.3
40°	1513.0	1510.9	1487.5	1450.9	1429.0
42.5°	1269.9	1309.4	1281.8	1236.9	1223.3
45°	850.0	950.8	963.7	915.6	762.9
47.5°	438.6	573.2	671.1	522.7	362.1
50°	246.5	346.2	495.1	280.3	225.2
52.5°	160.6	208.9	345.5	178.9	151.3
55°	76.5	92.1	160.4	86.9	78.6
57.5°	27.4	42.4	70.1	43.0	26.6
60°	5.3	17.8	40.4	12.5	1.1
62.5°	1.9	5.2	23.4	3.3	1.1
65°	0.0	1.0	2.1	1.0	0.0
67.5°	0.0	0.8	0.8	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	3.1	3.1	3.1
92.5°	3.4	11.8	40.1	13.2	10.7
95°	9.4	27.9	126.9	46.8	30.4
97.5°	17.2	36.3	210.2	130.8	82.4
100°	23.1	40.5	237.0	221.7	147.9
102.5°	28.9	45.6	232.0	316.6	248.5
105°	37.8	53.1	211.8	404.4	385.9
107.5°	46.6	60.9	192.5	411.1	431.4
110°	52.4	66.8	182.5	401.5	441.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.3	71.8	177.4	384.1	434.8
115°	67.1	79.4	172.0	354.8	415.3
117.5°	75.7	87.0	169.7	326.7	388.7
120°	80.8	92.0	168.8	310.7	370.2
122.5°	85.8	97.1	169.7	297.2	351.7
125°	93.3	103.6	169.9	279.0	327.2
127.5°	99.4	109.9	169.9	265.4	306.4
130°	102.8	114.1	169.9	257.8	294.7
132.5°	107.0	118.2	169.1	251.0	285.5
135°	112.2	124.5	168.8	240.8	270.6
137.5°	118.3	129.6	168.8	230.7	257.8
140°	121.7	132.9	168.8	223.9	248.5
142.5°	125.8	136.3	168.8	217.2	239.3
145°	131.1	141.3	168.8	208.1	226.5
147.5°	137.4	146.2	169.9	199.6	214.1
150°	141.6	148.8	169.9	195.3	206.6
152.5°	144.9	151.3	169.9	191.1	200.7
155°	150.0	155.1	169.9	186.8	193.0
157.5°	155.0	158.9	169.9	183.0	186.9
160°	158.4	161.4	169.9	180.5	183.5
162.5°	160.9	163.1	169.9	178.8	181.0
165°	164.7	165.7	170.9	176.2	178.3
167.5°	167.0	167.2	169.9	174.7	175.8
170°	167.8	168.8	169.9	173.1	174.1
172.5°	169.5	169.7	170.7	172.2	172.4
175°	170.9	170.9	170.9	172.0	170.9
177.5°	170.9	170.9	170.9	170.9	170.9
180°	170.9	170.9	170.9	170.9	170.9

(END OF REPORT)