

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: P559617

Luminaire Tested: **DL2-BB-M-025U-075D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P559617  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-BB-M-025U-075D-940-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

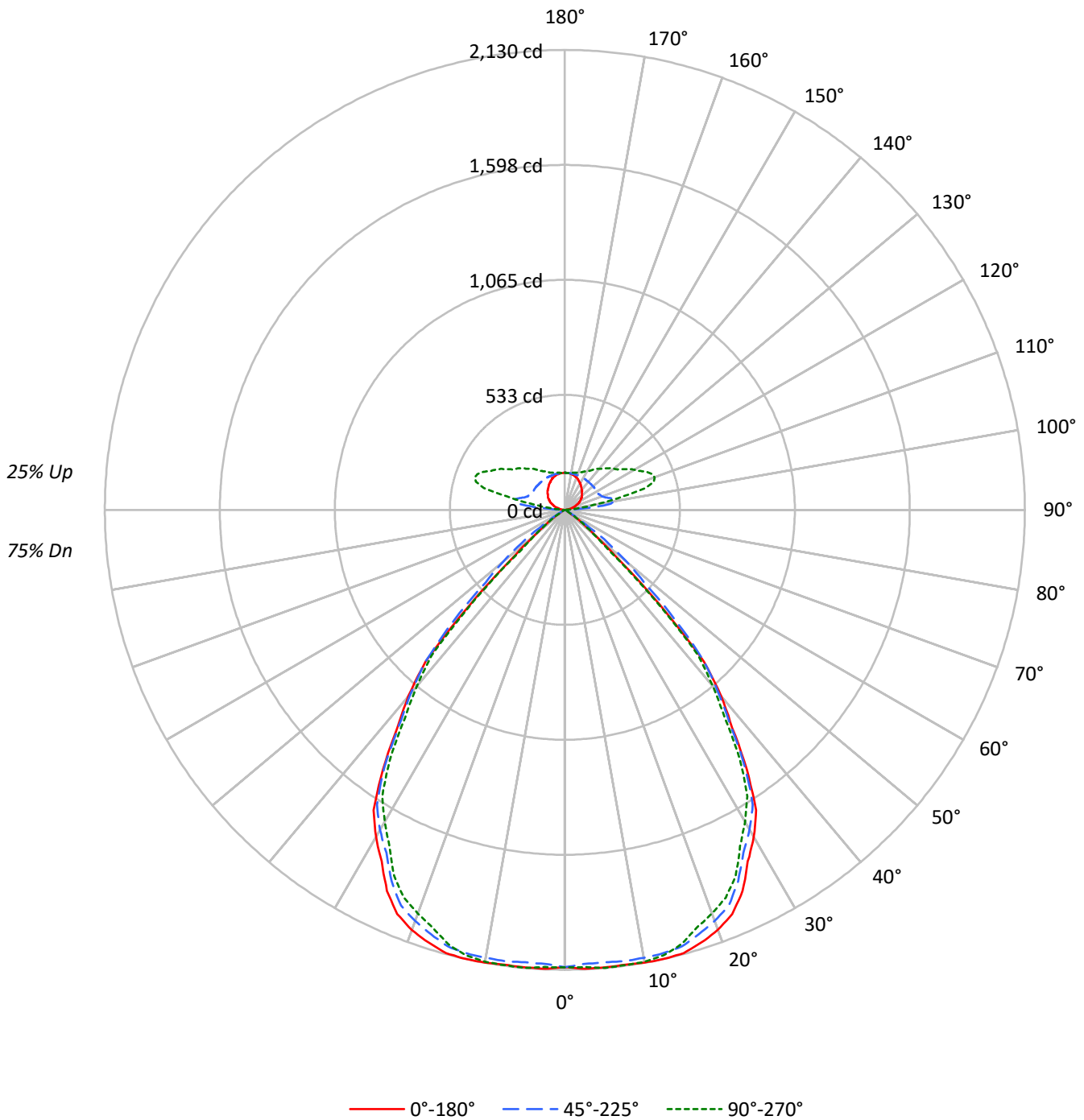
Lumens per Lamp: N/A  
Luminaire Lumens: 4230.1 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 35  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	79	79	79	75	
1	106	103	100	97	101	98	96	93	90	88	86	82	80	79	74	73	72	72	72	72	69	
2	99	94	89	85	95	90	86	82	82	79	76	76	73	71	69	68	66	66	66	66	63	
3	93	85	79	75	89	82	77	73	76	72	68	70	67	64	64	62	60	60	60	60	57	
4	87	78	71	66	83	75	69	65	70	65	61	65	61	58	60	57	55	55	55	55	52	
5	81	71	64	59	77	69	63	58	64	59	55	60	56	52	56	52	50	50	50	50	47	
6	76	65	59	54	73	63	57	52	59	54	50	55	51	48	52	48	46	46	46	46	43	
7	71	60	53	48	68	58	52	48	55	49	46	51	47	44	48	44	42	42	42	42	40	
8	67	56	49	44	64	54	48	43	51	45	42	48	43	40	45	41	38	38	38	38	36	
9	63	52	45	40	60	50	44	40	47	42	38	45	40	37	42	38	35	35	35	35	34	
10	59	48	41	37	57	47	41	36	44	39	35	42	37	34	39	35	33	33	33	33	31	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	34197	34197	34197
5°	34465	34088	34517
10°	34898	34534	34846
15°	35527	34997	34820
20°	35574	34826	34189
25°	34693	33806	33335
30°	32613	31903	31092
35°	28945	28716	27859
40°	23739	23336	22466
45°	14152	16646	13282
50°	4418	9236	4177
55°	1669	3282	1669
60°	103	924	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°	202.5	4.8
10°-20°	593.2	14.0
20°-30°	872.7	20.6
30°-40°	892.0	21.1
40°-50°	513.9	12.1
50°-60°	88.6	2.1
60°-70°	3.2	0.1
70°-80°	0.0	0.0
80°-90°	0.5	0.0
90°-100°	69.4	1.6
100°-110°	215.7	5.1
110°-120°	211.0	5.0
120°-130°	172.3	4.1
130°-140°	140.9	3.3
140°-150°	110.0	2.6
150°-160°	79.4	1.9
160°-170°	48.5	1.1
170°-180°	16.4	0.4
0°-30°	1668.4	39.4
0°-40°	2560.4	60.5
0°-60°	3162.8	74.8
0°-90°	3166.6	74.9
90°-120°	496.1	11.7
90°-150°	919.3	21.7
90°-180°	1064.0	25.2
0°-180°	4230.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2126	2121	2103	2132	2130	203
15°	2125	2143	2094	2096	2083	598
25°	1947	1965	1898	1878	1871	889
35°	1468	1480	1457	1429	1413	907
45°	620	712	729	688	582	480
55°	59	68	117	66	59	63
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	127	47	30	11
105°	38	53	212	405	387	40
115°	67	80	172	356	416	66
125°	94	104	170	280	328	83
135°	112	125	169	241	271	87
145°	131	142	169	209	227	83
155°	150	156	170	187	193	69
165°	165	166	171	177	179	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°	2118.0	2118.0	2118.0	2118.0	2118.0
2.5°	2127.4	2121.6	2104.5	2123.9	2119.7
5°	2126.5	2121.3	2103.2	2131.8	2129.7
7.5°	2125.2	2121.7	2108.9	2132.3	2127.1
10°	2128.6	2127.6	2106.4	2130.6	2125.4
12.5°	2130.3	2136.7	2103.8	2122.9	2113.6
15°	2125.4	2143.1	2093.7	2096.5	2083.1
17.5°	2101.7	2126.6	2060.8	2048.7	2029.7
20°	2070.4	2099.4	2026.9	2006.4	1989.8
22.5°	2026.3	2052.8	1983.7	1958.2	1944.9
25°	1947.4	1965.1	1897.6	1878.4	1871.2
27.5°	1835.8	1840.7	1790.0	1766.1	1756.7
30°	1749.3	1749.3	1711.2	1685.3	1667.7
32.5°	1648.4	1646.0	1618.8	1590.4	1572.8
35°	1468.5	1479.9	1456.9	1429.0	1413.4
37.5°	1273.8	1278.1	1260.6	1230.7	1217.6
40°	1126.3	1127.3	1107.2	1085.6	1065.9
42.5°	954.2	975.2	956.3	922.3	914.2
45°	619.8	712.0	729.0	688.4	581.7
47.5°	311.5	426.3	498.2	386.9	274.0
50°	175.9	244.3	367.7	204.7	166.3
52.5°	117.4	147.6	254.9	133.9	112.1
55°	59.3	67.6	116.6	65.6	59.3
57.5°	20.1	31.3	50.6	32.4	22.3
60°	3.2	13.5	28.6	10.4	1.1
62.5°	0.6	3.5	17.6	2.9	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	11.8	40.2	13.2	10.7
95°	9.5	28.0	127.2	46.9	30.5
97.5°	17.2	36.4	210.7	131.2	82.6
100°	23.1	40.6	237.6	222.3	148.2
102.5°	29.0	45.7	232.6	317.4	249.2
105°	37.8	53.3	212.4	405.4	386.9
107.5°	46.7	61.1	193.0	412.2	432.5
110°	52.6	67.0	182.9	402.5	442.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	58.5	72.0	177.9	385.1	435.9
115°	67.3	79.6	172.4	355.7	416.3
117.5°	75.9	87.2	170.1	327.5	389.6
120°	81.0	92.3	169.3	311.5	371.1
122.5°	86.0	97.3	170.1	297.9	352.6
125°	93.6	103.9	170.3	279.7	328.0
127.5°	99.7	110.2	170.3	266.1	307.2
130°	103.0	114.3	170.3	258.4	295.4
132.5°	107.2	118.5	169.5	251.6	286.2
135°	112.5	124.8	169.3	241.4	271.2
137.5°	118.6	129.9	169.3	231.3	258.4
140°	122.0	133.3	169.3	224.5	249.2
142.5°	126.2	136.6	169.3	217.7	239.9
145°	131.4	141.7	169.3	208.6	227.1
147.5°	137.7	146.6	170.3	200.1	214.7
150°	141.9	149.1	170.3	195.8	207.1
152.5°	145.3	151.7	170.3	191.6	201.2
155°	150.3	155.5	170.3	187.3	193.4
157.5°	155.4	159.3	170.3	183.4	187.4
160°	158.8	161.8	170.3	180.9	184.0
162.5°	161.3	163.5	170.3	179.2	181.5
165°	165.1	166.1	171.4	176.7	178.7
167.5°	167.4	167.6	170.3	175.2	176.2
170°	168.2	169.2	170.3	173.5	174.5
172.5°	169.9	170.1	171.2	172.6	172.8
175°	171.4	171.4	171.4	172.4	171.4
177.5°	171.4	171.4	171.4	171.4	171.4
180°	171.4	171.4	171.4	171.4	171.4

(END OF REPORT)