

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: P559712

Luminaire Tested: **DL2-WB-M-050U-075D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559712
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-10, G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-WB-M-050U-075D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

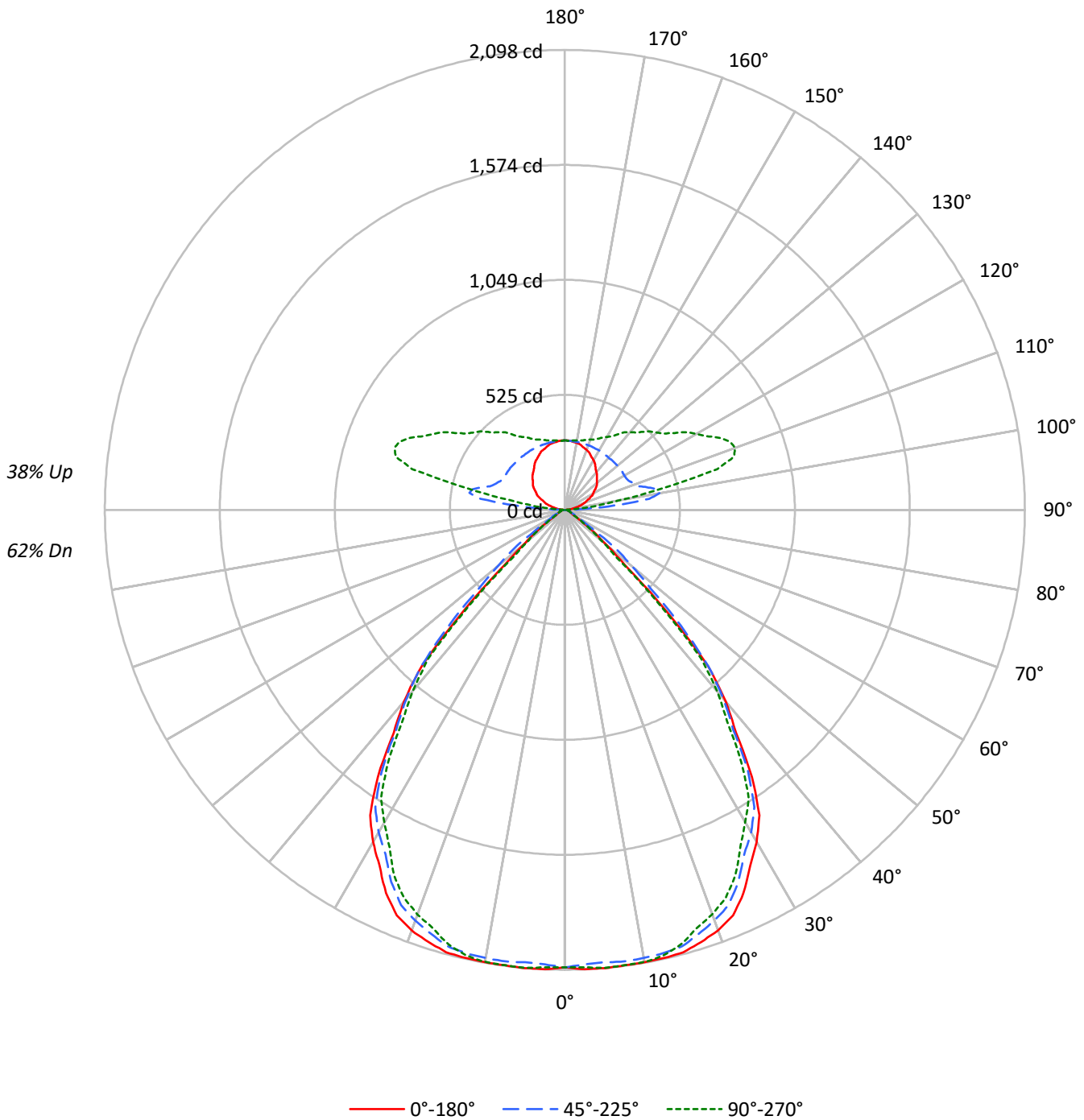
Lumens per Lamp: N/A
Luminaire Lumens: 5230.8 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 42.4
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	62		
1	103	99	96	93	96	93	91	88	82	81	79	72	71	70	63	62	61	57		
2	96	89	84	80	90	84	80	76	75	72	69	66	64	62	59	57	55	52		
3	89	81	75	70	83	77	71	67	69	64	61	61	58	55	54	52	50	47		
4	83	73	67	61	78	70	64	59	63	58	54	56	53	50	50	47	45	42		
5	77	67	60	55	72	64	57	53	57	52	49	52	48	45	46	43	41	38		
6	72	61	54	49	68	58	52	47	53	48	44	48	44	41	43	40	37	35		
7	67	56	49	44	63	53	47	42	49	43	40	44	40	37	40	37	34	32		
8	63	51	44	40	59	49	43	38	45	40	36	41	37	34	37	34	31	29		
9	59	48	41	36	55	46	39	35	42	37	33	38	34	31	35	31	29	27		
10	55	44	37	33	52	42	36	32	39	34	30	36	31	28	32	29	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33700	33700	33700
5°	34007	33585	33990
10°	34351	34023	34334
15°	34922	34471	34302
20°	35087	34263	33747
25°	34367	33350	32797
30°	32608	31674	30667
35°	29325	28714	27670
40°	24040	23682	22776
45°	15034	17112	14118
50°	5880	9977	5378
55°	2902	4647	2874
60°	1356	2228	1227
65°	1223	1299	1146
70°	1180	1227	1133
75°	1185	1185	1061
80°	1116	1116	1023
85°	1112	926	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	3.8
10°-20°	583.5	11.2
20°-30°	862.7	16.5
30°-40°	892.7	17.1
40°-50°	536.9	10.3
50°-60°	128.5	2.5
60°-70°	35.1	0.7
70°-80°	19.6	0.4
80°-90°	6.6	0.1
90°-100°	126.1	2.4
100°-110°	399.9	7.6
110°-120°	392.1	7.5
120°-130°	319.0	6.1
130°-140°	260.1	5.0
140°-150°	202.8	3.9
150°-160°	146.1	2.8
160°-170°	89.3	1.7
170°-180°	30.1	0.6
0°-30°	1645.8	31.5
0°-40°	2538.4	48.5
0°-60°	3203.9	61.3
0°-90°	3265.2	62.4
90°-120°	918.0	17.6
90°-150°	1700.0	32.5
90°-180°	1966.0	37.6
0°-180°	5230.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2087	2087	2087	2087	2087	
5°	2098	2091	2072	2100	2097	200
15°	2089	2105	2062	2062	2052	589
25°	1929	1945	1872	1852	1841	882
35°	1488	1486	1457	1423	1404	913
45°	658	747	749	712	618	509
55°	103	116	165	110	102	103
65°	32	33	34	32	30	32
75°	19	19	19	18	17	20
85°	6	6	5	5	5	6
90°	0	1	3	3	3	1
95°	17	51	229	85	55	20
105°	70	98	394	751	720	73
115°	124	148	318	662	778	123
125°	172	193	314	519	611	153
135°	208	228	312	446	503	161
145°	243	261	312	385	419	152
155°	277	286	312	344	357	128
165°	302	304	314	326	328	85
175°	316	315	316	318	316	30
180°	316	316	316	316	316	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2097.6	2092.1	2075.2	2092.7	2088.8
5°	2098.2	2091.3	2072.2	2100.1	2097.2
7.5°	2096.0	2093.0	2078.4	2099.5	2095.0
10°	2095.2	2096.1	2075.2	2097.1	2094.2
12.5°	2094.4	2102.4	2072.0	2089.0	2082.2
15°	2089.2	2104.8	2062.2	2061.9	2052.1
17.5°	2067.0	2085.5	2028.5	2012.9	2000.9
20°	2042.1	2060.7	1994.1	1969.0	1964.1
22.5°	2002.9	2023.1	1951.7	1924.1	1916.1
25°	1929.1	1944.7	1872.0	1851.8	1841.0
27.5°	1830.6	1839.2	1771.0	1747.8	1733.0
30°	1749.0	1752.9	1698.9	1668.4	1644.9
32.5°	1652.1	1656.0	1608.5	1579.7	1560.9
35°	1487.8	1485.9	1456.8	1423.4	1403.8
37.5°	1282.3	1285.1	1262.1	1235.6	1215.9
40°	1140.6	1142.6	1123.6	1085.5	1080.6
42.5°	967.7	997.1	971.5	941.8	918.9
45°	658.4	747.4	749.4	712.3	618.3
47.5°	371.8	473.2	531.7	425.0	311.0
50°	234.1	302.6	397.2	252.3	214.1
52.5°	166.1	200.9	299.6	177.4	157.3
55°	103.1	115.8	165.1	109.9	102.1
57.5°	61.2	74.3	93.9	74.4	62.0
60°	42.0	52.8	69.0	48.8	38.0
62.5°	36.4	40.9	54.6	38.5	34.8
65°	32.0	33.0	34.0	32.0	30.0
67.5°	28.2	29.2	28.4	28.2	26.4
70°	25.0	26.0	26.0	25.0	24.0
72.5°	22.6	23.6	22.8	22.6	20.8
75°	19.0	19.0	19.0	18.0	17.0
77.5°	14.4	15.4	14.4	14.4	13.4
80°	12.0	13.0	12.0	12.0	11.0
82.5°	9.6	9.8	9.6	9.6	8.6
85°	6.0	6.0	5.0	5.0	5.0
87.5°	1.6	2.6	2.2	2.2	2.2
90°	0.0	1.0	3.0	3.0	3.0
92.5°	5.6	22.1	70.7	23.5	16.5
95°	16.9	51.0	228.9	84.9	54.7
97.5°	31.5	66.1	387.8	242.3	148.7
100°	41.8	74.9	441.9	402.9	261.8
102.5°	53.0	84.5	432.4	591.7	452.9
105°	69.7	97.9	394.2	750.8	719.6
107.5°	86.4	112.5	357.7	767.4	809.4
110°	97.5	122.8	339.4	748.3	826.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.7	132.4	329.1	715.3	814.2
115°	124.4	147.8	318.5	661.6	778.4
117.5°	139.7	161.9	314.3	609.8	727.6
120°	149.3	170.7	313.5	577.9	691.8
122.5°	158.9	179.5	313.5	552.2	658.3
125°	172.2	192.6	313.5	518.7	611.1
127.5°	183.9	203.6	313.5	492.7	571.5
130°	191.1	211.5	313.5	477.4	548.4
132.5°	198.3	218.7	312.7	465.3	529.3
135°	208.0	228.5	311.5	446.2	502.7
137.5°	217.6	239.0	311.3	428.0	478.4
140°	224.0	245.4	310.5	415.1	460.8
142.5°	231.9	252.5	311.3	402.3	444.9
145°	242.9	261.4	311.5	385.0	419.0
147.5°	253.8	269.6	311.7	369.7	397.5
150°	261.8	274.4	312.5	360.8	383.2
152.5°	268.1	279.2	312.5	353.6	372.1
155°	276.7	286.4	312.5	343.7	357.3
157.5°	285.9	292.5	313.5	337.6	347.0
160°	290.6	296.5	313.5	333.6	341.4
162.5°	295.4	299.7	313.5	330.4	335.8
165°	301.6	304.5	313.5	325.5	328.5
167.5°	307.4	308.1	314.5	322.2	324.7
170°	310.5	310.5	314.5	320.5	321.5
172.5°	312.1	312.9	314.5	318.9	319.1
175°	315.5	314.6	315.5	317.5	316.5
177.5°	316.5	315.7	315.7	317.3	315.7
180°	316.5	316.5	316.5	316.5	316.5

(END OF REPORT)