

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: P559665

Luminaire Tested: **DL2-BB-M-100U-075D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559665
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-12, 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-100U-075D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

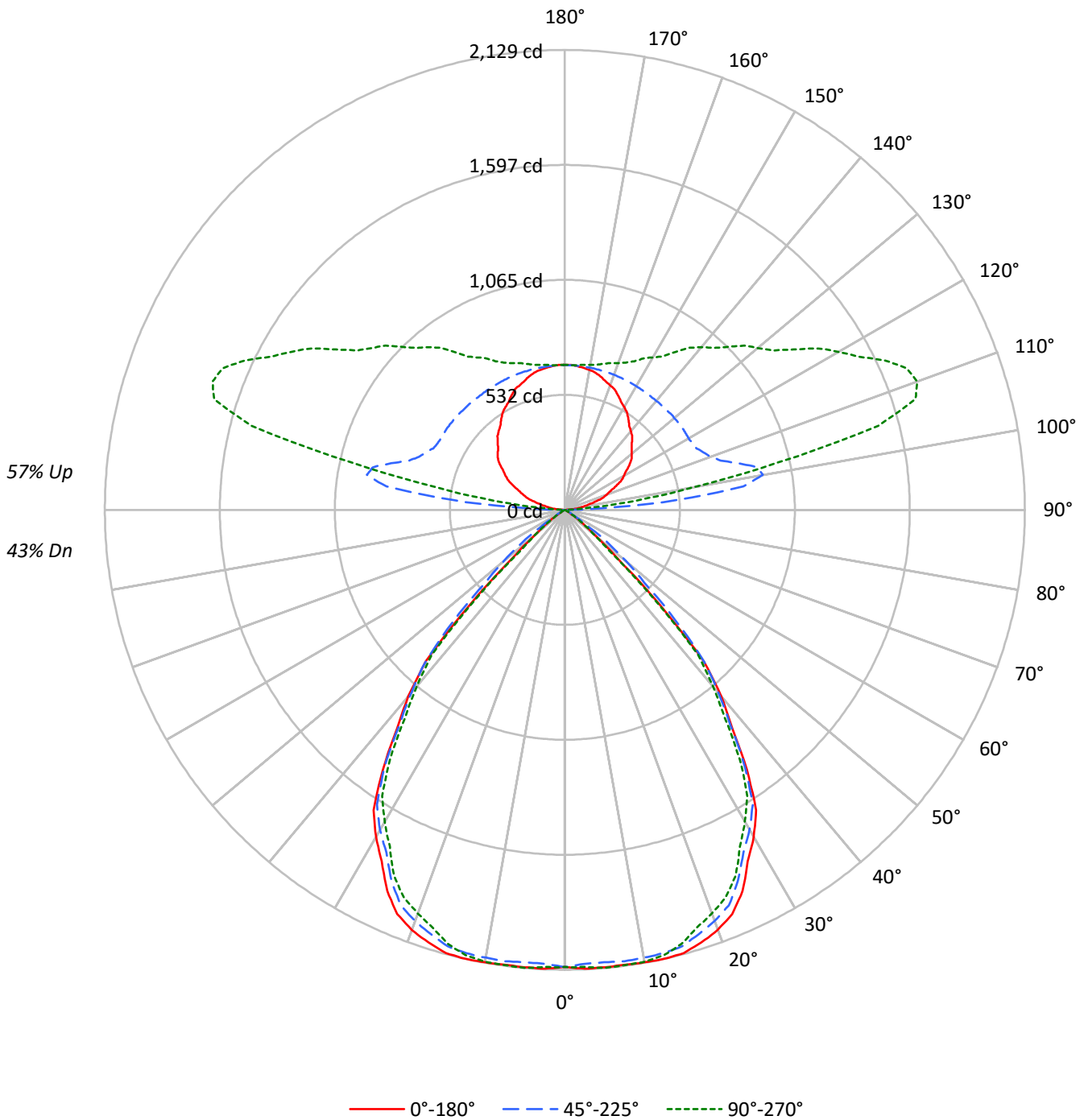
Lumens per Lamp: N/A
Luminaire Lumens: 7338.4 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.2
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43						
1	98	94	91	88	90	87	84	81	72	70	69	59	58	57	47	46	45	40						
2	91	84	79	75	83	78	73	70	65	62	60	54	52	50	43	42	41	36						
3	84	76	70	65	77	70	65	61	59	56	52	49	47	45	40	38	37	33						
4	78	68	62	56	71	63	58	53	54	50	46	45	42	40	37	35	34	30						
5	72	62	55	50	66	58	51	47	49	45	41	42	38	36	34	32	31	27						
6	67	56	49	44	62	52	46	42	45	40	37	38	35	32	32	30	28	25						
7	62	51	44	39	57	48	42	37	41	37	33	35	32	29	30	27	25	23						
8	58	47	40	35	54	44	38	34	38	33	30	33	29	27	28	25	23	21						
9	54	43	36	32	50	41	35	30	35	31	27	30	27	24	26	23	21	19						
10	51	40	33	29	47	37	32	28	33	28	25	28	25	22	24	22	20	18						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34176	34176	34176
5°	34443	34065	34494
10°	34877	34511	34824
15°	35505	34974	34796
20°	35550	34804	34166
25°	34671	33784	33314
30°	32593	31882	31073
35°	28927	28696	27841
40°	23724	23322	22451
45°	14143	16634	13273
50°	4416	9229	4175
55°	1669	3279	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°	202.4	2.8
10°-20°	592.8	8.1
20°-30°	872.1	11.9
30°-40°	891.4	12.1
40°-50°	513.5	7.0
50°-60°	88.5	1.2
60°-70°	3.2	0.0
70°-80°	0.0	0.0
80°-90°	1.6	0.0
90°-100°	280.0	3.8
100°-110°	847.0	11.5
110°-120°	826.8	11.3
120°-130°	675.6	9.2
130°-140°	551.5	7.5
140°-150°	429.3	5.9
150°-160°	309.5	4.2
160°-170°	189.5	2.6
170°-180°	64.0	0.9
0°-30°	1667.3	22.7
0°-40°	2558.7	34.9
0°-60°	3160.8	43.1
0°-90°	3165.6	43.1
90°-120°	1953.8	26.6
90°-150°	3610.3	49.2
90°-180°	4173.0	56.9
0°-180°	7338.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2125	2120	2102	2130	2128	203
15°	2124	2142	2092	2095	2082	598
25°	1946	1964	1896	1877	1870	888
35°	1468	1479	1456	1428	1412	907
45°	619	712	728	688	581	479
55°	59	68	116	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	2	13	7	6	2
95°	35	110	528	195	123	41
105°	147	207	832	1579	1501	155
115°	262	312	673	1392	1635	259
125°	366	406	663	1099	1294	325
135°	439	485	659	948	1066	340
145°	513	551	659	815	892	321
155°	584	604	663	731	759	269
165°	639	646	666	692	700	180
175°	668	668	670	675	673	63
180°	670	670	670	670	670	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2116.7	2116.7	2116.7	2116.7	2116.7
2.5°	2126.0	2120.2	2103.1	2122.5	2118.4
5°	2125.1	2120.0	2101.8	2130.4	2128.3
7.5°	2123.9	2120.3	2107.6	2131.0	2125.8
10°	2127.3	2126.2	2105.0	2129.3	2124.1
12.5°	2129.0	2135.4	2102.5	2121.5	2112.2
15°	2124.1	2141.7	2092.3	2095.2	2081.7
17.5°	2100.4	2125.2	2059.5	2047.4	2028.4
20°	2069.0	2098.0	2025.6	2005.1	1988.5
22.5°	2025.0	2051.5	1982.4	1956.9	1943.6
25°	1946.2	1963.8	1896.4	1877.2	1870.0
27.5°	1834.6	1839.6	1788.8	1764.9	1755.6
30°	1748.2	1748.2	1710.1	1684.3	1666.7
32.5°	1647.4	1644.9	1617.7	1589.4	1571.8
35°	1467.6	1479.0	1455.9	1428.1	1412.5
37.5°	1273.0	1277.3	1259.8	1229.9	1216.8
40°	1125.6	1126.6	1106.5	1084.9	1065.2
42.5°	953.6	974.5	955.7	921.7	913.6
45°	619.4	711.6	728.5	688.0	581.3
47.5°	311.3	426.0	497.9	386.7	273.8
50°	175.8	244.1	367.4	204.5	166.2
52.5°	117.3	147.6	254.8	133.8	112.0
55°	59.3	67.6	116.5	65.5	59.3
57.5°	20.1	31.3	50.6	32.4	22.2
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	0.4	2.5	1.5	1.3
90°	0.0	2.1	12.6	7.3	6.3
92.5°	11.8	47.6	171.0	56.7	40.8
95°	34.7	109.9	528.4	195.2	123.2
97.5°	67.2	139.8	832.9	551.1	335.6
100°	87.4	158.4	930.6	899.6	604.2
102.5°	110.1	178.7	910.3	1261.8	1005.9
105°	147.4	207.1	831.6	1579.3	1501.1
107.5°	182.7	239.8	755.8	1610.7	1701.3
110°	206.3	260.9	717.9	1571.2	1735.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.1	282.0	695.2	1504.8	1713.1
115°	262.1	312.5	672.7	1391.9	1634.8
117.5°	295.0	342.7	664.7	1286.1	1534.8
120°	316.9	362.1	662.1	1224.4	1463.2
122.5°	337.1	379.9	662.1	1170.1	1390.8
125°	366.3	406.5	663.2	1099.2	1293.7
127.5°	390.1	431.7	662.1	1045.7	1211.6
130°	405.3	448.5	662.1	1015.0	1165.3
132.5°	418.8	462.8	661.3	987.0	1125.7
135°	439.0	485.3	659.0	948.0	1066.3
137.5°	461.5	505.5	659.0	906.3	1016.0
140°	475.8	519.0	659.0	879.2	983.2
142.5°	490.1	531.7	658.1	854.5	945.3
145°	512.6	550.7	659.0	815.4	891.6
147.5°	535.2	567.5	660.2	783.2	841.7
150°	549.5	579.3	661.1	765.4	814.8
152.5°	563.0	589.5	661.9	750.0	790.3
155°	584.2	603.8	663.2	731.2	759.0
157.5°	602.8	618.6	664.4	717.3	736.7
160°	613.7	627.1	665.3	708.8	723.2
162.5°	624.7	634.7	666.1	701.1	713.1
165°	639.0	646.2	666.3	691.8	700.0
167.5°	651.2	654.9	667.6	684.5	688.0
170°	657.9	660.0	668.4	681.1	682.1
172.5°	662.1	663.4	668.4	677.7	677.9
175°	668.4	668.4	669.5	674.7	672.7
177.5°	671.4	670.6	669.7	672.2	670.5
180°	670.5	670.5	670.5	670.5	670.5

(END OF REPORT)