

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: P559688

Luminaire Tested: **DL2-BB-M-150U-075D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559688
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-14, 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-150U-075D-935-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

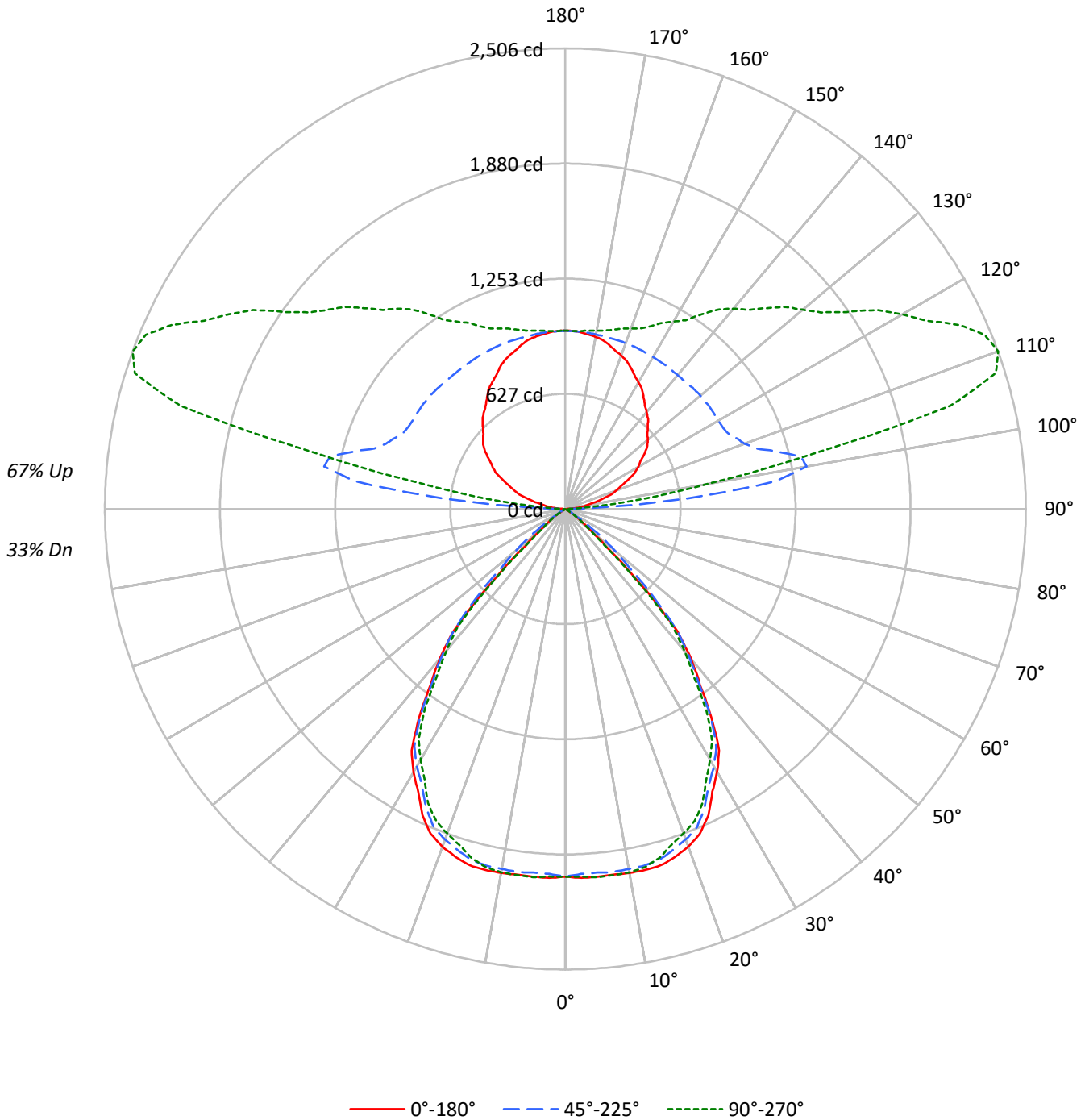
Lumens per Lamp: N/A
Luminaire Lumens: 8976.3 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	95	92	88	85	86	83	80	78	67	65	63	52	51	50	38	37	37	31
2	88	82	76	72	79	74	70	66	60	57	55	47	45	44	35	34	33	28
3	81	73	67	62	73	67	61	57	54	51	48	43	41	39	33	31	30	25
4	75	66	59	53	68	60	54	49	49	45	42	39	37	34	30	28	27	23
5	69	59	52	47	63	54	48	43	45	40	37	36	33	31	28	26	25	21
6	64	53	46	41	58	49	43	38	41	36	33	33	30	28	26	24	22	19
7	60	49	41	36	54	45	39	34	37	33	29	30	27	25	24	22	20	18
8	55	44	37	33	50	41	35	31	34	30	27	28	25	23	22	20	19	16
9	52	41	34	29	47	38	32	28	32	27	24	26	23	21	21	19	17	15
10	48	37	31	26	44	35	29	25	29	25	22	24	21	19	19	17	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32301	32301	32301
5°	32554	32198	32603
10°	32964	32619	32914
15°	33558	33056	32889
20°	33601	32895	32294
25°	32771	31932	31486
30°	30805	30134	29369
35°	27340	27124	26315
40°	22422	22042	21220
45°	13369	15721	12545
50°	4172	8724	3946
55°	1576	3099	1576
60°	97	872	32
65°	0	38	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°	191.3	2.1
10°-20°	560.3	6.2
20°-30°	824.3	9.2
30°-40°	842.5	9.4
40°-50°	485.4	5.4
50°-60°	83.7	0.9
60°-70°	3.0	0.0
70°-80°	0.0	0.0
80°-90°	1.4	0.0
90°-100°	369.5	4.1
100°-110°	1209.8	13.5
110°-120°	1196.0	13.3
120°-130°	977.7	10.9
130°-140°	797.9	8.9
140°-150°	620.9	6.9
150°-160°	447.1	5.0
160°-170°	273.5	3.0
170°-180°	92.4	1.0
0°-30°	1575.9	17.6
0°-40°	2418.4	26.9
0°-60°	2987.5	33.3
0°-90°	2991.9	33.3
90°-120°	2775.3	30.9
90°-150°	5171.8	57.6
90°-180°	5985.0	66.7
0°-180°	8976.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2001	2001	2001	2001	2001	
5°	2009	2004	1987	2014	2012	192
15°	2008	2024	1978	1980	1968	565
25°	1840	1856	1792	1774	1767	839
35°	1387	1398	1376	1350	1335	857
45°	586	673	688	650	549	453
55°	56	64	110	62	56	59
65°	0	0	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	3	8	7	8	3
95°	52	150	672	239	156	59
105°	210	300	1201	2282	2168	222
115°	379	453	976	2016	2367	374
125°	527	588	962	1590	1868	469
135°	635	702	954	1371	1546	491
145°	742	797	952	1180	1292	465
155°	846	874	958	1055	1096	390
165°	924	933	962	999	1010	260
175°	966	966	967	974	972	92
180°	970	970	970	970	970	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2000.6	2000.6	2000.6	2000.6	2000.6
2.5°	2009.4	2003.9	1987.8	2006.1	2002.2
5°	2008.6	2003.7	1986.6	2013.6	2011.6
7.5°	2007.4	2004.1	1992.0	2014.1	2009.2
10°	2010.6	2009.6	1989.6	2012.5	2007.6
12.5°	2012.2	2018.3	1987.2	2005.2	1996.4
15°	2007.6	2024.2	1977.6	1980.3	1967.6
17.5°	1985.2	2008.7	1946.6	1935.1	1917.1
20°	1955.6	1983.0	1914.5	1895.2	1879.5
22.5°	1913.9	1939.0	1873.7	1849.6	1837.1
25°	1839.5	1856.1	1792.4	1774.3	1767.4
27.5°	1734.0	1738.7	1690.7	1668.1	1659.3
30°	1652.3	1652.3	1616.3	1591.9	1575.3
32.5°	1557.0	1554.7	1529.0	1502.2	1485.6
35°	1387.1	1397.9	1376.1	1349.7	1335.1
37.5°	1203.2	1207.3	1190.8	1162.4	1150.1
40°	1063.8	1064.8	1045.8	1025.4	1006.8
42.5°	901.3	921.1	903.3	871.1	863.5
45°	585.5	672.6	688.5	650.2	549.4
47.5°	294.2	402.7	470.6	365.5	258.8
50°	166.1	230.7	347.3	193.3	157.1
52.5°	110.9	139.5	240.8	126.4	105.9
55°	56.0	63.9	110.1	61.9	56.0
57.5°	19.0	29.6	47.8	30.6	21.0
60°	3.0	12.8	27.0	9.8	1.0
62.5°	0.6	3.3	16.6	2.7	0.2
65°	0.0	0.0	1.0	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°	0.2	0.6	1.6	1.4	1.6
90°	1.0	2.9	8.0	7.0	8.0
92.5°	16.9	61.8	189.7	61.7	49.4
95°	51.8	150.2	671.7	239.3	155.5
97.5°	94.1	198.1	1152.4	697.1	432.1
100°	123.6	223.0	1333.4	1190.7	789.3
102.5°	157.1	254.1	1313.5	1754.5	1360.1
105°	210.3	299.9	1200.8	2281.5	2167.5
107.5°	262.7	344.9	1091.0	2330.8	2456.1
110°	297.0	376.9	1038.4	2273.4	2506.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.7	407.2	1006.5	2173.7	2472.0
115°	378.7	452.7	975.6	2016.0	2366.8
117.5°	426.3	495.5	963.9	1861.1	2217.3
120°	457.4	522.7	960.7	1770.8	2117.7
122.5°	485.3	549.0	960.7	1692.9	2014.8
125°	527.2	587.6	961.7	1589.8	1867.5
127.5°	562.7	624.2	960.5	1513.9	1755.5
130°	585.0	647.3	959.7	1467.9	1686.2
132.5°	604.9	668.8	957.3	1428.4	1626.4
135°	634.8	702.0	953.7	1371.2	1545.6
137.5°	666.3	732.9	951.5	1311.7	1469.3
140°	688.6	752.9	950.7	1274.0	1423.1
142.5°	710.9	771.4	950.7	1233.8	1368.9
145°	742.4	797.0	951.7	1179.5	1292.5
147.5°	775.5	820.9	953.1	1132.2	1217.6
150°	796.2	836.2	954.7	1104.8	1176.9
152.5°	817.0	852.2	955.5	1082.2	1141.8
155°	846.1	874.3	957.7	1055.3	1096.2
157.5°	872.2	892.6	959.9	1034.1	1063.7
160°	888.9	905.5	960.7	1022.0	1045.4
162.5°	903.3	916.7	960.7	1012.3	1029.4
165°	923.8	932.6	961.7	998.8	1009.5
167.5°	941.1	945.4	962.9	988.3	994.2
170°	950.7	952.7	963.7	982.6	984.6
172.5°	957.9	959.1	966.1	978.6	979.0
175°	965.7	965.7	966.7	973.6	971.6
177.5°	969.6	968.9	968.0	972.8	969.6
180°	969.6	969.6	969.6	969.6	969.6

(END OF REPORT)