

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: P183571

Luminaire Tested: **MB-WS-1L30-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26966)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: MB-WS-1L30-1D-UNV-4-STD-DM5  
Description: CORELITE MINIGATOR SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.  
Light Source: (336)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2715.2 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.37 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: General Diffuse

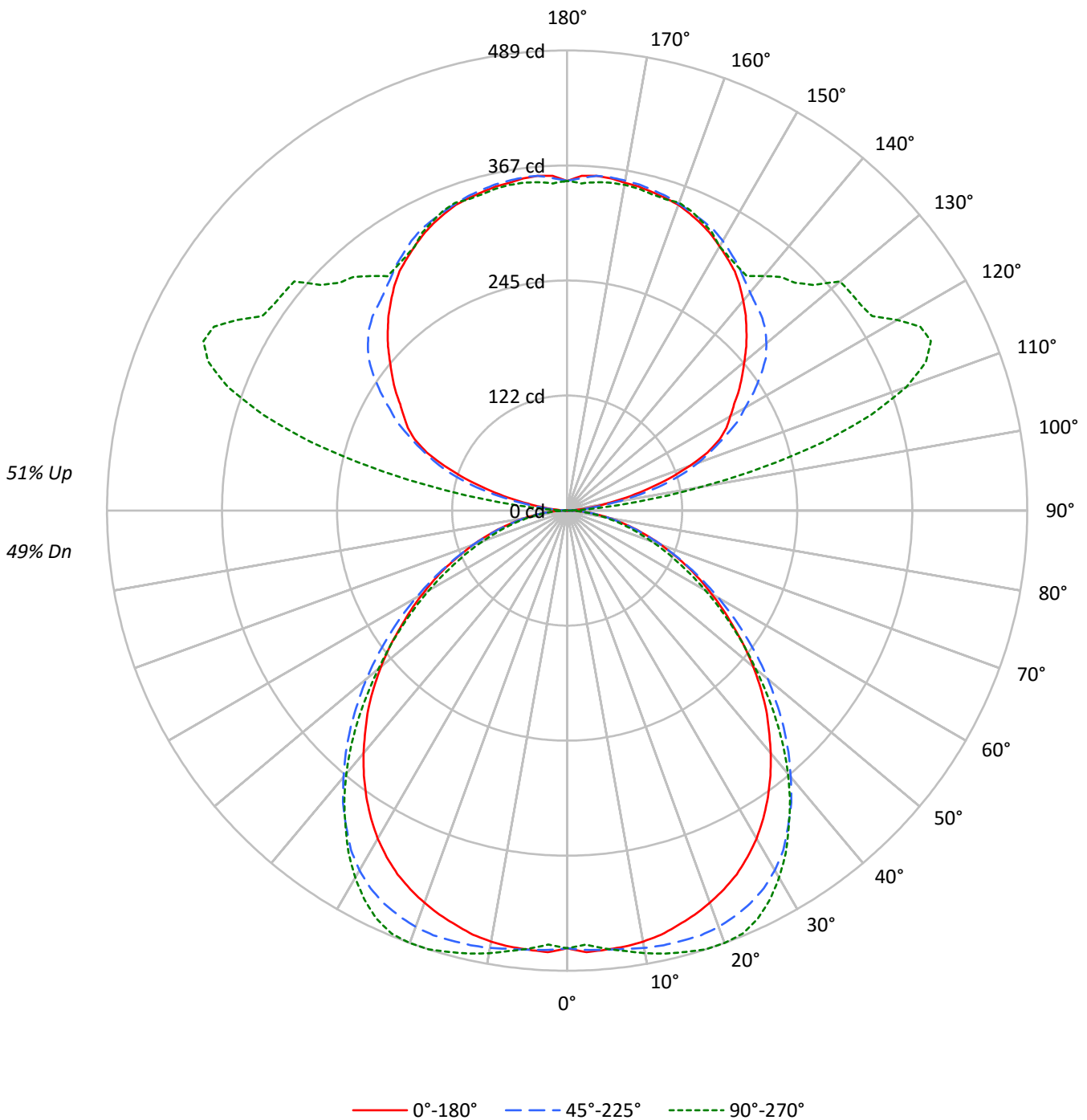
Input Watts (W): 26.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	33	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	3726	3726	3726
5°	3748	3629	3584
10°	3745	3566	3538
15°	3724	3515	3505
20°	3702	3466	3467
25°	3670	3386	3361
30°	3603	3264	3154
35°	3495	3071	2890
40°	3356	2833	2604
45°	3202	2570	2286
50°	3009	2289	1962
55°	2787	1991	1665
60°	2582	1696	1384
65°	2376	1407	1121
70°	2137	1130	885
75°	1879	860	665
80°	1579	592	442
85°	1193	316	214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.7	1.6
10°-20°	133.3	4.9
20°-30°	209.2	7.7
30°-40°	248.8	9.2
40°-50°	242.7	8.9
50°-60°	199.9	7.4
60°-70°	139.0	5.1
70°-80°	76.4	2.8
80°-90°	22.8	0.8
90°-100°	30.7	1.1
100°-110°	157.3	5.8
110°-120°	241.4	8.9
120°-130°	252.1	9.3
130°-140°	230.7	8.5
140°-150°	197.1	7.3
150°-160°	156.0	5.7
160°-170°	99.2	3.7
170°-180°	33.8	1.2
0°-30°	387.2	14.3
0°-40°	636.0	23.4
0°-60°	1078.6	39.7
0°-90°	1316.9	48.5
90°-120°	429.4	15.8
90°-150°	1109.3	40.9
90°-180°	1398.0	51.5
0°-180°	2715.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	468	464	468	467	467	45
15°	456	457	473	483	486	129
25°	426	433	461	474	479	196
35°	372	381	409	412	410	232
45°	299	310	325	318	314	230
55°	216	226	231	221	214	194
65°	141	146	143	135	130	140
75°	74	76	73	68	66	79
85°	22	23	20	18	17	22
90°	0	1	1	1	1	2
95°	11	12	15	32	35	16
105°	89	89	105	230	282	94
115°	178	176	184	323	426	173
125°	223	236	251	337	381	199
135°	270	274	292	320	342	208
145°	310	312	317	314	316	194
155°	337	336	340	340	339	155
165°	350	350	352	349	348	99
175°	357	354	357	355	350	34
180°	350	350	350	350	350	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	465.1	465.1	465.1	465.1	465.1
2.5°	469.7	464.0	467.4	466.3	461.7
5°	468.5	464.0	468.5	467.4	467.4
7.5°	467.4	462.9	469.7	472.0	472.0
10°	465.1	461.7	472.0	475.4	477.6
12.5°	461.7	459.5	473.1	479.9	482.2
15°	456.0	457.2	473.1	483.3	485.6
17.5°	450.4	453.8	473.1	484.5	489.0
20°	443.5	448.1	470.8	484.5	489.0
22.5°	435.6	441.3	466.3	481.1	486.7
25°	426.5	433.3	460.6	474.2	478.8
27.5°	415.1	423.1	452.6	464.0	466.3
30°	402.6	410.5	441.3	449.2	450.4
32.5°	387.8	398.0	427.6	432.2	432.2
35°	371.9	381.0	409.4	411.7	410.5
37.5°	354.8	365.1	391.2	390.1	388.9
40°	336.6	346.9	369.6	367.3	365.1
42.5°	317.3	328.7	348.0	343.5	340.0
45°	299.1	310.5	325.3	318.4	313.9
47.5°	278.6	290.0	301.4	294.5	287.7
50°	258.2	268.4	278.6	267.3	261.6
52.5°	237.7	247.9	254.7	244.5	237.7
55°	216.1	226.3	230.9	220.6	213.8
57.5°	196.7	204.7	208.1	197.9	191.1
60°	177.4	184.2	185.4	176.3	169.5
62.5°	159.2	164.9	163.8	154.7	149.0
65°	141.0	145.6	143.3	135.3	129.6
67.5°	122.8	126.2	124.0	117.1	112.6
70°	105.8	109.2	105.8	98.9	95.5
72.5°	89.8	92.1	88.7	83.0	79.6
75°	73.9	76.2	72.8	68.2	66.0
77.5°	59.1	60.3	58.0	54.6	52.3
80°	45.5	46.6	44.4	42.1	39.8
82.5°	33.0	34.1	31.8	30.7	28.4
85°	21.6	22.7	20.5	18.2	17.1
87.5°	10.2	11.4	9.1	8.0	6.8
90°	0.0	1.1	1.1	1.1	1.1
92.5°	3.4	4.5	4.5	6.8	6.8
95°	11.4	12.5	14.8	31.8	35.3
97.5°	25.0	26.2	31.8	75.1	83.0
100°	42.1	44.4	53.5	127.4	144.4
102.5°	64.8	66.0	79.6	182.0	213.8
105°	88.7	88.7	104.6	229.7	282.0
107.5°	113.7	110.3	128.5	268.4	338.9
110°	138.7	134.2	147.8	294.5	383.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	161.5	155.8	166.0	310.5	412.8
115°	178.5	176.3	184.2	323.0	426.5
117.5°	191.1	194.5	203.6	332.1	423.1
120°	200.2	211.5	218.4	340.0	404.9
122.5°	210.4	226.3	235.4	337.8	384.4
125°	222.9	236.5	251.3	336.6	381.0
127.5°	234.3	243.4	266.1	337.8	379.8
130°	245.6	253.6	276.4	329.8	378.7
132.5°	258.2	263.8	285.5	318.4	354.8
135°	269.5	274.1	292.3	319.6	342.3
137.5°	280.9	283.2	296.8	320.7	336.6
140°	291.1	292.3	302.5	312.7	325.3
142.5°	301.4	302.5	309.3	310.5	313.9
145°	310.5	311.6	317.3	313.9	316.2
147.5°	317.3	318.4	324.1	319.6	319.6
150°	324.1	324.1	330.9	326.4	324.1
152.5°	330.9	329.8	336.6	333.2	333.2
155°	336.6	335.5	340.0	340.0	338.9
157.5°	341.2	340.0	343.5	345.7	344.6
160°	345.7	344.6	346.9	346.9	348.0
162.5°	348.0	348.0	350.3	346.9	346.9
165°	350.3	350.3	352.5	349.1	348.0
167.5°	352.5	352.5	354.8	351.4	350.3
170°	353.7	353.7	356.0	352.5	351.4
172.5°	356.0	354.8	357.1	353.7	351.4
175°	357.1	353.7	357.1	354.8	350.3
177.5°	356.0	352.5	353.7	350.3	348.0
180°	350.3	350.3	350.3	350.3	350.3

(END OF REPORT)