

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: P183580

Luminaire Tested: **MB-WS-5L35-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183580
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-5L35-1D-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)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6875.9 lumens
Efficiency: N/A
Efficacy: 86.8 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

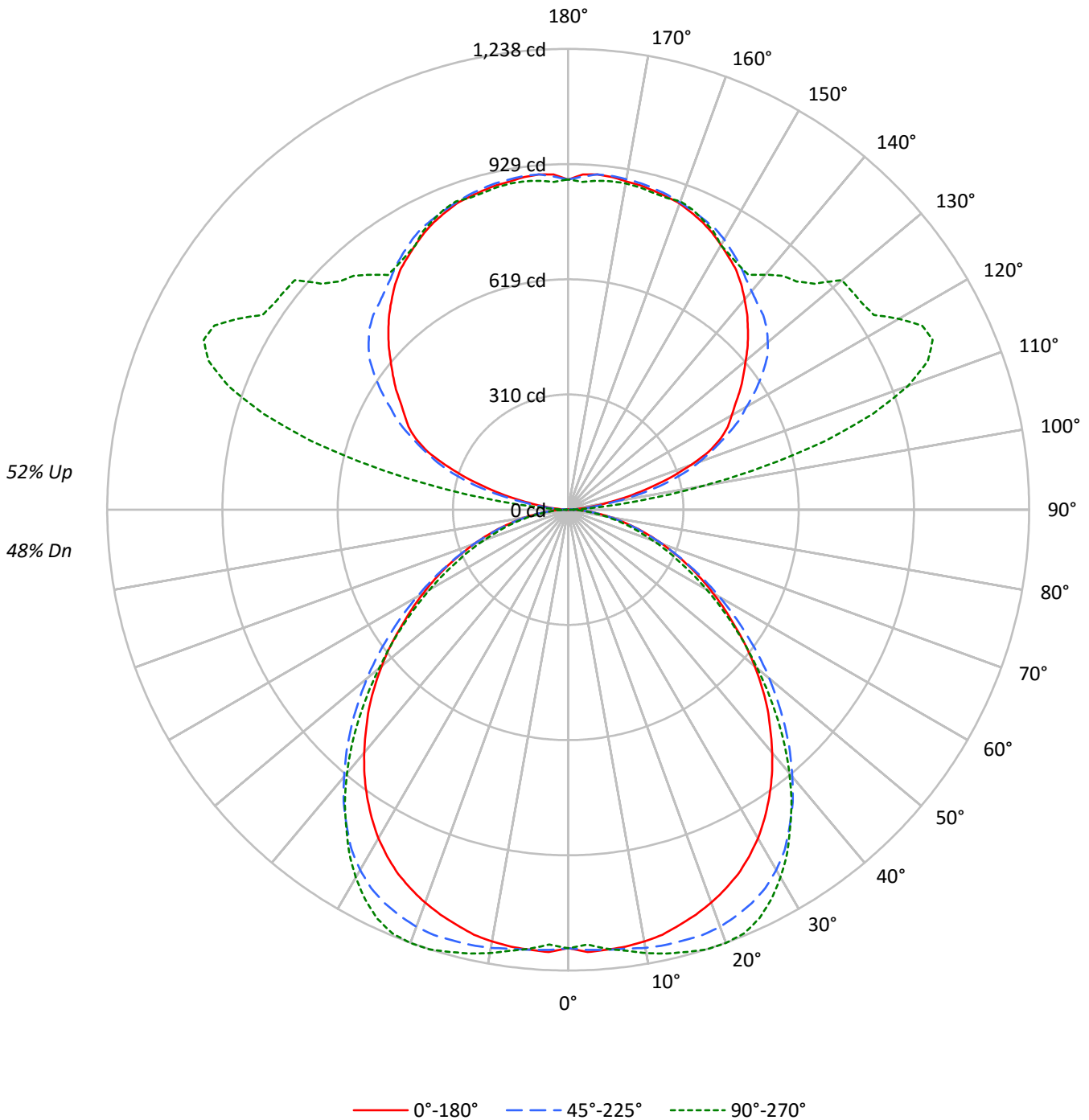
Input Watts (W): 79.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	82	82	68	68	68	55	55	55	48
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°	9435	9435	9435
5°	9493	9193	9077
10°	9484	9031	8961
15°	9431	8901	8877
20°	9376	8778	8781
25°	9294	8574	8512
30°	9124	8265	7988
35°	8850	7776	7320
40°	8500	7175	6594
45°	8109	6508	5789
50°	7620	5796	4967
55°	7056	5041	4216
60°	6540	4294	3504
65°	6018	3563	2840
70°	5408	2861	2243
75°	4761	2178	1682
80°	3997	1497	1120
85°	3021	799	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.6
10°-20°	337.5	4.9
20°-30°	529.9	7.7
30°-40°	630.1	9.2
40°-50°	614.5	8.9
50°-60°	506.3	7.4
60°-70°	352.1	5.1
70°-80°	193.5	2.8
80°-90°	57.7	0.8
90°-100°	77.7	1.1
100°-110°	398.4	5.8
110°-120°	611.4	8.9
120°-130°	638.4	9.3
130°-140°	584.3	8.5
140°-150°	499.1	7.3
150°-160°	395.1	5.7
160°-170°	251.1	3.7
170°-180°	85.6	1.2
0°-30°	980.6	14.3
0°-40°	1610.7	23.4
0°-60°	2731.4	39.7
0°-90°	3334.8	48.5
90°-120°	1087.5	15.8
90°-150°	2809.3	40.9
90°-180°	3541.0	51.5
0°-180°	6875.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1187	1175	1187	1184	1184	113
15°	1155	1158	1198	1224	1230	326
25°	1080	1097	1166	1201	1212	497
35°	942	965	1037	1043	1040	588
45°	757	786	824	806	795	583
55°	547	573	585	559	541	491
65°	357	369	363	343	328	354
75°	187	193	184	173	167	199
85°	55	58	52	46	43	57
90°	0	3	3	3	3	5
95°	29	32	37	81	89	41
105°	225	225	265	582	714	239
115°	452	446	467	818	1080	439
125°	564	599	636	852	965	505
135°	683	694	740	809	867	527
145°	786	789	804	795	801	491
155°	852	850	861	861	858	393
165°	887	887	893	884	881	251
175°	904	896	904	899	887	86
180°	887	887	887	887	887	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.9	1177.9	1177.9	1177.9	1177.9
2.5°	1189.4	1175.0	1183.7	1180.8	1169.3
5°	1186.6	1175.0	1186.6	1183.7	1183.7
7.5°	1183.7	1172.2	1189.4	1195.2	1195.2
10°	1177.9	1169.3	1195.2	1203.8	1209.6
12.5°	1169.3	1163.5	1198.1	1215.4	1221.1
15°	1154.9	1157.8	1198.1	1224.0	1229.8
17.5°	1140.5	1149.1	1198.1	1226.9	1238.4
20°	1123.2	1134.7	1192.3	1226.9	1238.4
22.5°	1103.0	1117.4	1180.8	1218.2	1232.6
25°	1080.0	1097.3	1166.4	1201.0	1212.5
27.5°	1051.2	1071.4	1146.2	1175.0	1180.8
30°	1019.5	1039.7	1117.4	1137.6	1140.5
32.5°	982.1	1008.0	1082.9	1094.4	1094.4
35°	941.8	964.8	1036.8	1042.6	1039.7
37.5°	898.6	924.5	990.7	987.8	985.0
40°	852.5	878.4	936.0	930.2	924.5
42.5°	803.5	832.3	881.3	869.8	861.1
45°	757.4	786.2	823.7	806.4	794.9
47.5°	705.6	734.4	763.2	745.9	728.6
50°	653.8	679.7	705.6	676.8	662.4
52.5°	601.9	627.8	645.1	619.2	601.9
55°	547.2	573.1	584.6	558.7	541.4
57.5°	498.2	518.4	527.0	501.1	483.8
60°	449.3	466.6	469.4	446.4	429.1
62.5°	403.2	417.6	414.7	391.7	377.3
65°	357.1	368.6	362.9	342.7	328.3
67.5°	311.0	319.7	313.9	296.6	285.1
70°	267.8	276.5	267.8	250.6	241.9
72.5°	227.5	233.3	224.6	210.2	201.6
75°	187.2	193.0	184.3	172.8	167.0
77.5°	149.8	152.6	146.9	138.2	132.5
80°	115.2	118.1	112.3	106.6	100.8
82.5°	83.5	86.4	80.6	77.8	72.0
85°	54.7	57.6	51.8	46.1	43.2
87.5°	25.9	28.8	23.0	20.2	17.3
90°	0.0	2.9	2.9	2.9	2.9
92.5°	8.6	11.5	11.5	17.3	17.3
95°	28.8	31.7	37.4	80.6	89.3
97.5°	63.4	66.2	80.6	190.1	210.2
100°	106.6	112.3	135.4	322.6	365.8
102.5°	164.2	167.0	201.6	460.8	541.4
105°	224.6	224.6	265.0	581.8	714.2
107.5°	288.0	279.4	325.4	679.7	858.2
110°	351.4	339.8	374.4	745.9	970.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	409.0	394.6	420.5	786.2	1045.4
115°	452.2	446.4	466.6	817.9	1080.0
117.5°	483.8	492.5	515.5	841.0	1071.4
120°	506.9	535.7	553.0	861.1	1025.3
122.5°	532.8	573.1	596.2	855.4	973.4
125°	564.5	599.0	636.5	852.5	964.8
127.5°	593.3	616.3	673.9	855.4	961.9
130°	622.1	642.2	699.8	835.2	959.0
132.5°	653.8	668.2	722.9	806.4	898.6
135°	682.6	694.1	740.2	809.3	866.9
137.5°	711.4	717.1	751.7	812.2	852.5
140°	737.3	740.2	766.1	792.0	823.7
142.5°	763.2	766.1	783.4	786.2	794.9
145°	786.2	789.1	803.5	794.9	800.6
147.5°	803.5	806.4	820.8	809.3	809.3
150°	820.8	820.8	838.1	826.6	820.8
152.5°	838.1	835.2	852.5	843.8	843.8
155°	852.5	849.6	861.1	861.1	858.2
157.5°	864.0	861.1	869.8	875.5	872.6
160°	875.5	872.6	878.4	878.4	881.3
162.5°	881.3	881.3	887.0	878.4	878.4
165°	887.0	887.0	892.8	884.2	881.3
167.5°	892.8	892.8	898.6	889.9	887.0
170°	895.7	895.7	901.4	892.8	889.9
172.5°	901.4	898.6	904.3	895.7	889.9
175°	904.3	895.7	904.3	898.6	887.0
177.5°	901.4	892.8	895.7	887.0	881.3
180°	887.0	887.0	887.0	887.0	887.0

(END OF REPORT)