

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: P183578

Luminaire Tested: **MB-WS-3L35-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183578
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-3L35-1D-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: 4681.5 lumens
Efficiency: N/A
Efficacy: 101.1 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

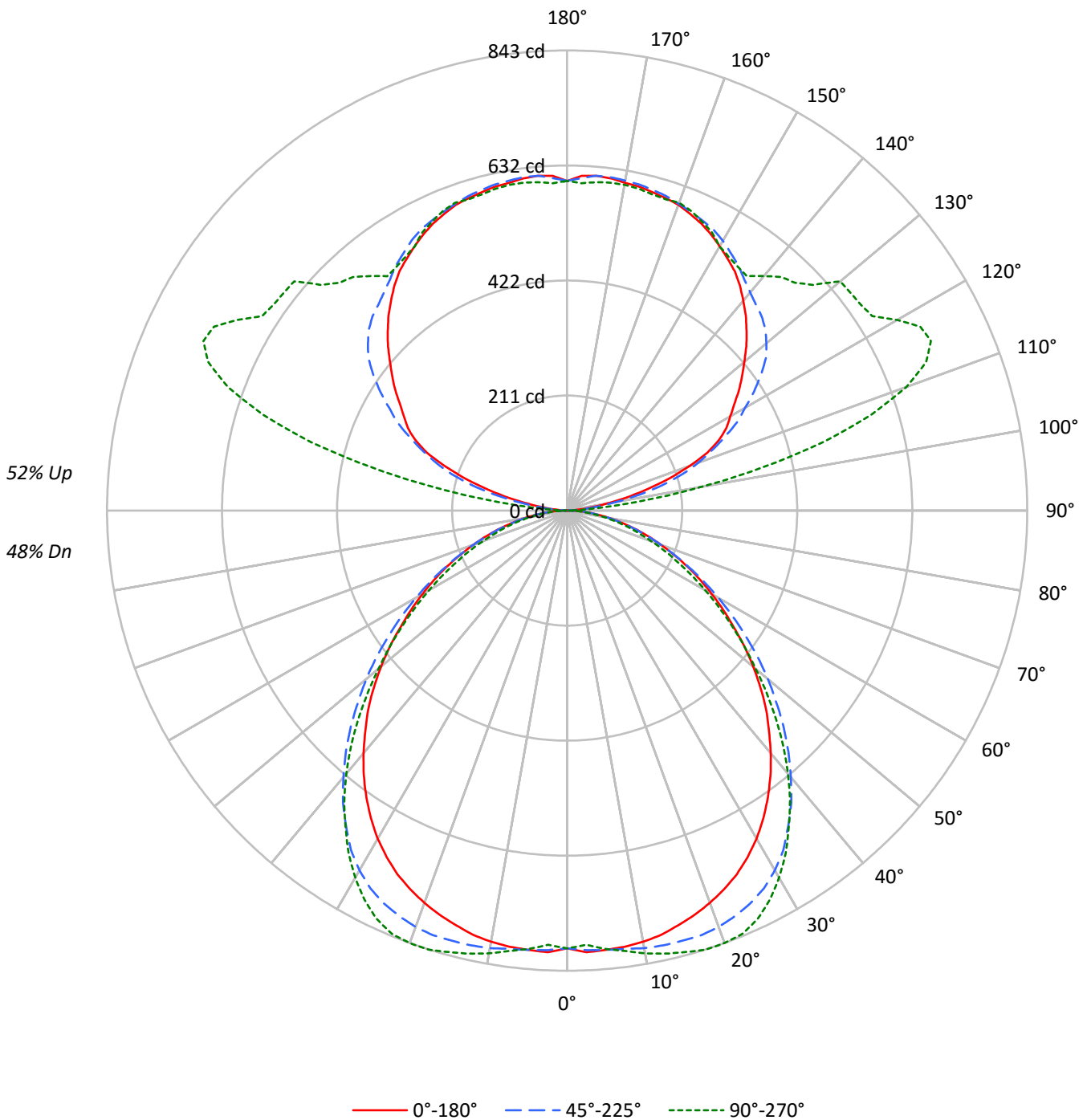
Input Watts (W): 46.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6424	6424	6424
5°	6463	6259	6180
10°	6457	6149	6102
15°	6421	6060	6044
20°	6384	5976	5979
25°	6327	5838	5795
30°	6212	5627	5438
35°	6025	5294	4984
40°	5787	4886	4489
45°	5521	4431	3942
50°	5187	3946	3382
55°	4805	3433	2871
60°	4452	2923	2386
65°	4097	2426	1933
70°	3684	1949	1527
75°	3243	1483	1145
80°	2720	1020	762
85°	2060	544	368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.6
10°-20°	229.8	4.9
20°-30°	360.8	7.7
30°-40°	429.0	9.2
40°-50°	418.4	8.9
50°-60°	344.7	7.4
60°-70°	239.7	5.1
70°-80°	131.8	2.8
80°-90°	39.3	0.8
90°-100°	52.9	1.1
100°-110°	271.2	5.8
110°-120°	416.3	8.9
120°-130°	434.7	9.3
130°-140°	397.8	8.5
140°-150°	339.8	7.3
150°-160°	269.0	5.7
160°-170°	171.0	3.7
170°-180°	58.3	1.2
0°-30°	667.6	14.3
0°-40°	1096.6	23.4
0°-60°	1859.7	39.7
0°-90°	2270.5	48.5
90°-120°	740.4	15.8
90°-150°	1912.7	40.9
90°-180°	2411.0	51.5
0°-180°	4681.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	808	800	808	806	806	77
15°	786	788	816	833	837	222
25°	735	747	794	818	826	338
35°	641	657	706	710	708	400
45°	516	535	561	549	541	397
55°	373	390	398	380	369	335
65°	243	251	247	233	224	241
75°	128	131	126	118	114	136
85°	37	39	35	31	29	39
90°	0	2	2	2	2	3
95°	20	22	26	55	61	28
105°	153	153	180	396	486	162
115°	308	304	318	557	735	299
125°	384	408	433	580	657	344
135°	465	473	504	551	590	359
145°	535	537	547	541	545	334
155°	580	578	586	586	584	268
165°	604	604	608	602	600	171
175°	616	610	616	612	604	59
180°	604	604	604	604	604	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.0	802.0	802.0	802.0	802.0
2.5°	809.8	800.0	805.9	804.0	796.1
5°	807.9	800.0	807.9	805.9	805.9
7.5°	805.9	798.1	809.8	813.8	813.8
10°	802.0	796.1	813.8	819.6	823.6
12.5°	796.1	792.2	815.7	827.5	831.4
15°	786.3	788.3	815.7	833.4	837.3
17.5°	776.5	782.4	815.7	835.3	843.2
20°	764.7	772.6	811.8	835.3	843.2
22.5°	751.0	760.8	804.0	829.4	839.2
25°	735.3	747.1	794.1	817.7	825.5
27.5°	715.7	729.4	780.4	800.0	804.0
30°	694.1	707.9	760.8	774.5	776.5
32.5°	668.7	686.3	737.3	745.1	745.1
35°	641.2	656.9	705.9	709.8	707.9
37.5°	611.8	629.4	674.5	672.6	670.6
40°	580.4	598.1	637.3	633.4	629.4
42.5°	547.1	566.7	600.0	592.2	586.3
45°	515.7	535.3	560.8	549.0	541.2
47.5°	480.4	500.0	519.6	507.9	496.1
50°	445.1	462.8	480.4	460.8	451.0
52.5°	409.8	427.5	439.2	421.6	409.8
55°	372.6	390.2	398.1	380.4	368.6
57.5°	339.2	353.0	358.8	341.2	329.4
60°	305.9	317.7	319.6	303.9	292.2
62.5°	274.5	284.3	282.4	266.7	256.9
65°	243.1	251.0	247.1	233.3	223.5
67.5°	211.8	217.7	213.7	202.0	194.1
70°	182.4	188.2	182.4	170.6	164.7
72.5°	154.9	158.8	152.9	143.1	137.3
75°	127.5	131.4	125.5	117.7	113.7
77.5°	102.0	103.9	100.0	94.1	90.2
80°	78.4	80.4	76.5	72.6	68.6
82.5°	56.9	58.8	54.9	52.9	49.0
85°	37.3	39.2	35.3	31.4	29.4
87.5°	17.6	19.6	15.7	13.7	11.8
90°	0.0	2.0	2.0	2.0	2.0
92.5°	5.9	7.8	7.8	11.8	11.8
95°	19.6	21.6	25.5	54.9	60.8
97.5°	43.1	45.1	54.9	129.4	143.1
100°	72.6	76.5	92.2	219.6	249.0
102.5°	111.8	113.7	137.3	313.7	368.6
105°	152.9	152.9	180.4	396.1	486.3
107.5°	196.1	190.2	221.6	462.8	584.3
110°	239.2	231.4	254.9	507.9	660.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.4	268.6	286.3	535.3	711.8
115°	307.9	303.9	317.7	556.9	735.3
117.5°	329.4	335.3	351.0	572.6	729.4
120°	345.1	364.7	376.5	586.3	698.1
122.5°	362.8	390.2	405.9	582.4	662.8
125°	384.3	407.9	433.3	580.4	656.9
127.5°	403.9	419.6	458.8	582.4	654.9
130°	423.5	437.3	476.5	568.6	653.0
132.5°	445.1	454.9	492.2	549.0	611.8
135°	464.7	472.6	503.9	551.0	590.2
137.5°	484.3	488.3	511.8	553.0	580.4
140°	502.0	503.9	521.6	539.2	560.8
142.5°	519.6	521.6	533.4	535.3	541.2
145°	535.3	537.3	547.1	541.2	545.1
147.5°	547.1	549.0	558.8	551.0	551.0
150°	558.8	558.8	570.6	562.8	558.8
152.5°	570.6	568.6	580.4	574.5	574.5
155°	580.4	578.5	586.3	586.3	584.3
157.5°	588.3	586.3	592.2	596.1	594.1
160°	596.1	594.1	598.1	598.1	600.0
162.5°	600.0	600.0	603.9	598.1	598.1
165°	603.9	603.9	607.9	602.0	600.0
167.5°	607.9	607.9	611.8	605.9	603.9
170°	609.8	609.8	613.7	607.9	605.9
172.5°	613.7	611.8	615.7	609.8	605.9
175°	615.7	609.8	615.7	611.8	603.9
177.5°	613.7	607.9	609.8	603.9	600.0
180°	603.9	603.9	603.9	603.9	603.9

(END OF REPORT)