

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: P183457

Luminaire Tested: **MB-WS-2L35-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26969)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: MB-WS-2L35-1D-UNV-4-STD-DM8
Description: CORELITE MINIGATOR SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 80% UP / 20% DOWN.
Light Source: (336)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

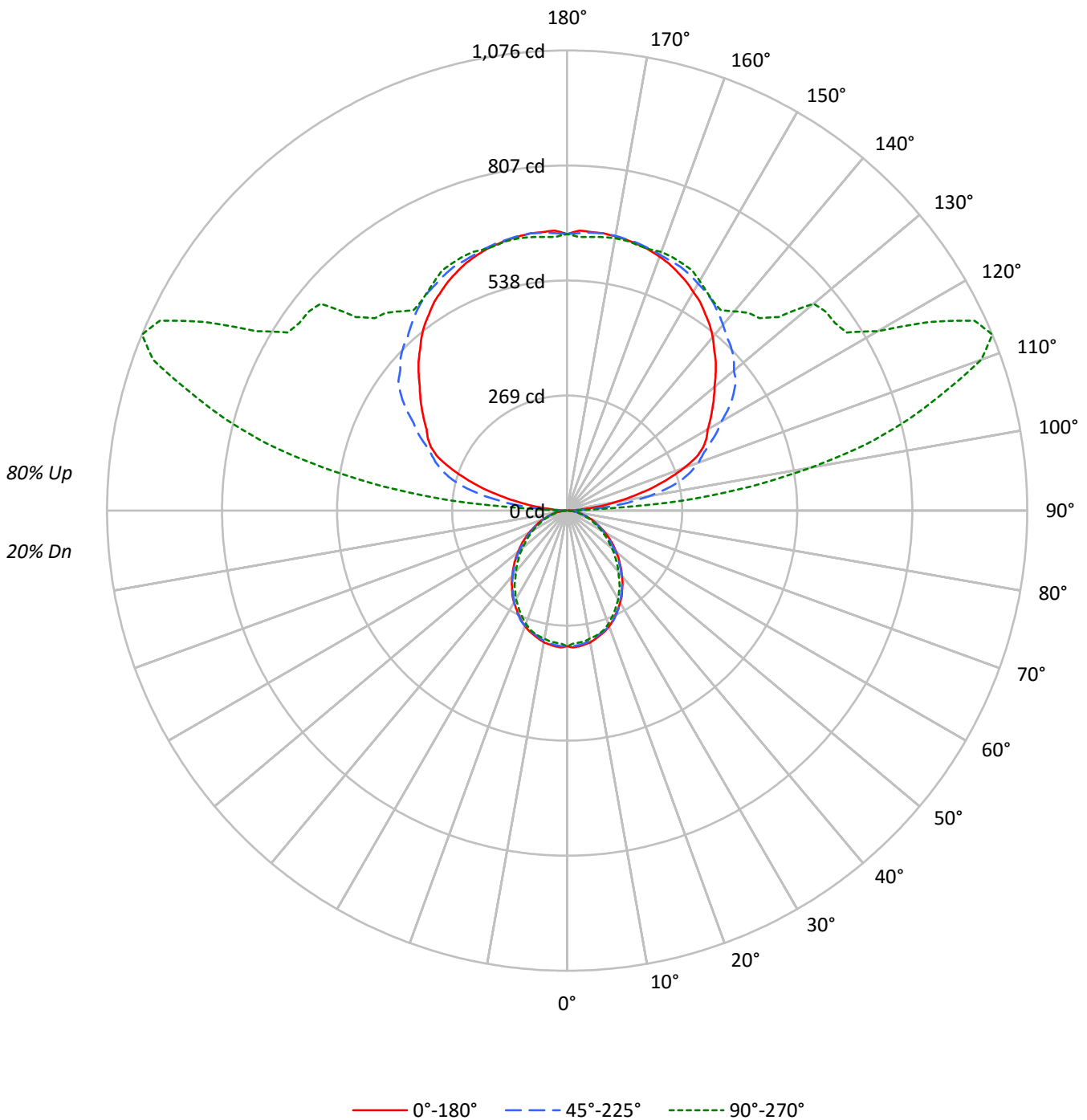
Input Watts (W): 35.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183457

CATALOG NUMBER: MB-WS-2L35-1D-UNV-4-STD-DM8

Luminous Intensity Polar Plot





TEST NUMBER: P183457

CATALOG NUMBER: MB-WS-2L35-1D-UNV-4-STD-DM8

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	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20				
1	91	87	83	80	81	77	74	71	58	57	55	41	40	39	26	25	24	17				
2	83	76	70	65	73	67	63	59	51	48	45	36	34	33	23	22	21	15				
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18	12				
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15	11				
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13	9				
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12	8				
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10	7				
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9	7				
9	46	35	28	23	41	31	25	21	24	20	17	18	15	12	11	10	8	6				
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	5				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2542	2542	2542
5°	2551	2446	2376
10°	2519	2342	2252
15°	2459	2215	2141
20°	2403	2119	1999
25°	2311	1986	1834
30°	2219	1834	1675
35°	2108	1672	1507
40°	1986	1516	1327
45°	1865	1353	1172
50°	1738	1200	1018
55°	1617	1043	885
60°	1482	891	747
65°	1343	753	612
70°	1222	615	492
75°	1050	470	372
80°	923	335	246
85°	734	205	129



TEST NUMBER: P183457

CATALOG NUMBER: MB-WS-2L35-1D-UNV-4-STD-DM8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	0.8
10°-20°	84.1	2.3
20°-30°	122.5	3.3
30°-40°	138.1	3.8
40°-50°	131.2	3.6
50°-60°	108.0	2.9
60°-70°	76.0	2.1
70°-80°	42.8	1.2
80°-90°	14.2	0.4
90°-100°	143.9	3.9
100°-110°	439.1	12.0
110°-120°	526.5	14.3
120°-130°	486.7	13.3
130°-140°	428.3	11.7
140°-150°	366.4	10.0
150°-160°	288.2	7.9
160°-170°	182.0	5.0
170°-180°	62.0	1.7
0°-30°	236.4	6.4
0°-40°	374.5	10.2
0°-60°	613.6	16.7
0°-90°	746.5	20.3
90°-120°	1109.6	30.2
90°-150°	2391.0	65.2
90°-180°	2923.0	79.7
0°-180°	3669.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	317	317	317	317	317	
5°	319	314	316	314	310	30
15°	301	298	298	298	297	85
25°	269	266	270	263	261	124
35°	224	226	223	217	214	140
45°	174	176	171	164	161	135
55°	125	127	121	115	114	112
65°	80	81	77	72	71	79
75°	41	43	40	38	37	45
85°	13	15	13	12	10	13
90°	2	4	3	2	0	3
95°	40	52	94	235	276	49
105°	207	211	278	689	828	216
115°	351	351	366	719	1051	342
125°	415	441	475	667	764	371
135°	492	505	542	595	636	379
145°	562	567	595	593	596	352
155°	614	610	629	633	638	283
165°	644	640	646	642	642	182
175°	654	651	652	648	642	62
180°	646	646	646	646	646	



TEST NUMBER: P183457

CATALOG NUMBER: MB-WS-2L35-1D-UNV-4-STD-DM8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	317.3	317.3	317.3	317.3	317.3
2.5°	320.3	315.8	317.3	315.8	311.4
5°	318.8	314.4	315.8	314.4	309.9
7.5°	315.8	311.4	312.9	311.4	308.5
10°	312.9	308.5	309.9	307.0	304.0
12.5°	307.0	304.0	304.0	301.1	301.1
15°	301.1	298.1	298.1	298.1	296.6
17.5°	295.2	290.7	293.7	293.7	290.7
20°	287.8	283.4	287.8	284.8	281.9
22.5°	278.9	276.0	280.4	274.5	271.6
25°	268.6	265.7	270.1	262.7	261.2
27.5°	258.3	256.8	259.8	252.4	249.4
30°	247.9	246.5	247.9	242.0	239.1
32.5°	237.6	236.1	234.7	228.8	225.8
35°	224.3	225.8	222.9	217.0	214.0
37.5°	212.5	214.0	211.0	203.7	199.2
40°	199.2	202.2	197.8	190.4	186.0
42.5°	187.4	188.9	184.5	177.1	174.2
45°	174.2	175.6	171.2	163.8	160.9
47.5°	162.3	163.8	159.4	152.0	149.1
50°	149.1	150.5	146.1	138.7	135.8
52.5°	137.3	138.7	132.8	126.9	124.0
55°	125.4	126.9	121.0	115.1	113.6
57.5°	113.6	115.1	109.2	104.8	101.8
60°	101.8	103.3	97.4	93.0	91.5
62.5°	90.0	91.5	87.1	82.6	81.2
65°	79.7	81.2	76.7	72.3	70.8
67.5°	69.4	70.8	66.4	63.5	62.0
70°	60.5	60.5	57.6	54.6	53.1
72.5°	50.2	51.7	48.7	45.8	44.3
75°	41.3	42.8	39.8	38.4	36.9
77.5°	33.9	35.4	32.5	31.0	29.5
80°	26.6	28.0	25.1	23.6	22.1
82.5°	19.2	20.7	19.2	17.7	16.2
85°	13.3	14.8	13.3	11.8	10.3
87.5°	5.9	8.9	5.9	5.9	4.4
90°	1.5	4.4	3.0	1.5	0.0
92.5°	14.8	20.7	31.0	53.1	57.6
95°	39.8	51.7	94.5	234.7	276.0
97.5°	75.3	88.6	144.6	367.5	433.9
100°	115.1	128.4	194.8	484.1	578.5
102.5°	160.9	171.2	240.6	591.8	715.8
105°	206.6	211.0	277.5	689.2	828.0
107.5°	249.4	252.4	304.0	763.0	926.8
110°	290.7	286.3	326.2	792.5	1030.2



TEST NUMBER: P183457

CATALOG NUMBER: MB-WS-2L35-1D-UNV-4-STD-DM8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	327.6	320.3	343.9	770.4	1075.9
115°	351.3	351.3	366.0	718.7	1050.8
117.5°	367.5	377.8	394.1	692.2	954.9
120°	379.3	405.9	416.2	681.9	838.3
122.5°	397.0	429.5	448.7	673.0	774.8
125°	414.7	441.3	475.2	667.1	764.5
127.5°	432.4	450.1	497.4	665.6	763.0
130°	450.1	464.9	509.2	639.0	752.7
132.5°	470.8	485.6	528.4	593.3	670.0
135°	491.5	504.7	541.6	594.8	636.1
137.5°	509.2	519.5	552.0	594.8	627.2
140°	529.8	537.2	566.7	583.0	608.1
142.5°	547.5	553.4	581.5	583.0	590.3
145°	562.3	566.7	594.8	593.3	596.2
147.5°	578.5	580.0	605.1	606.6	606.6
150°	590.3	590.3	612.5	619.9	619.9
152.5°	603.6	600.7	621.3	628.7	633.1
155°	614.0	609.5	628.7	633.1	637.6
157.5°	624.3	619.9	631.7	639.0	642.0
160°	631.7	627.2	636.1	640.5	643.5
162.5°	639.0	633.1	642.0	639.0	640.5
165°	643.5	640.5	646.4	642.0	642.0
167.5°	647.9	646.4	649.4	646.4	646.4
170°	650.9	649.4	652.3	647.9	646.4
172.5°	653.8	650.9	653.8	647.9	645.0
175°	653.8	650.9	652.3	647.9	642.0
177.5°	655.3	649.4	649.4	643.5	640.5
180°	646.4	646.4	646.4	646.4	646.4

(END OF REPORT)