

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: P183516

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26967)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: MB-WS-1L35-1D-UNV-4-STD
Description: CORELITE MINIGATOR SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 65% UP / 35% DOWN.
Light Source: (336)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

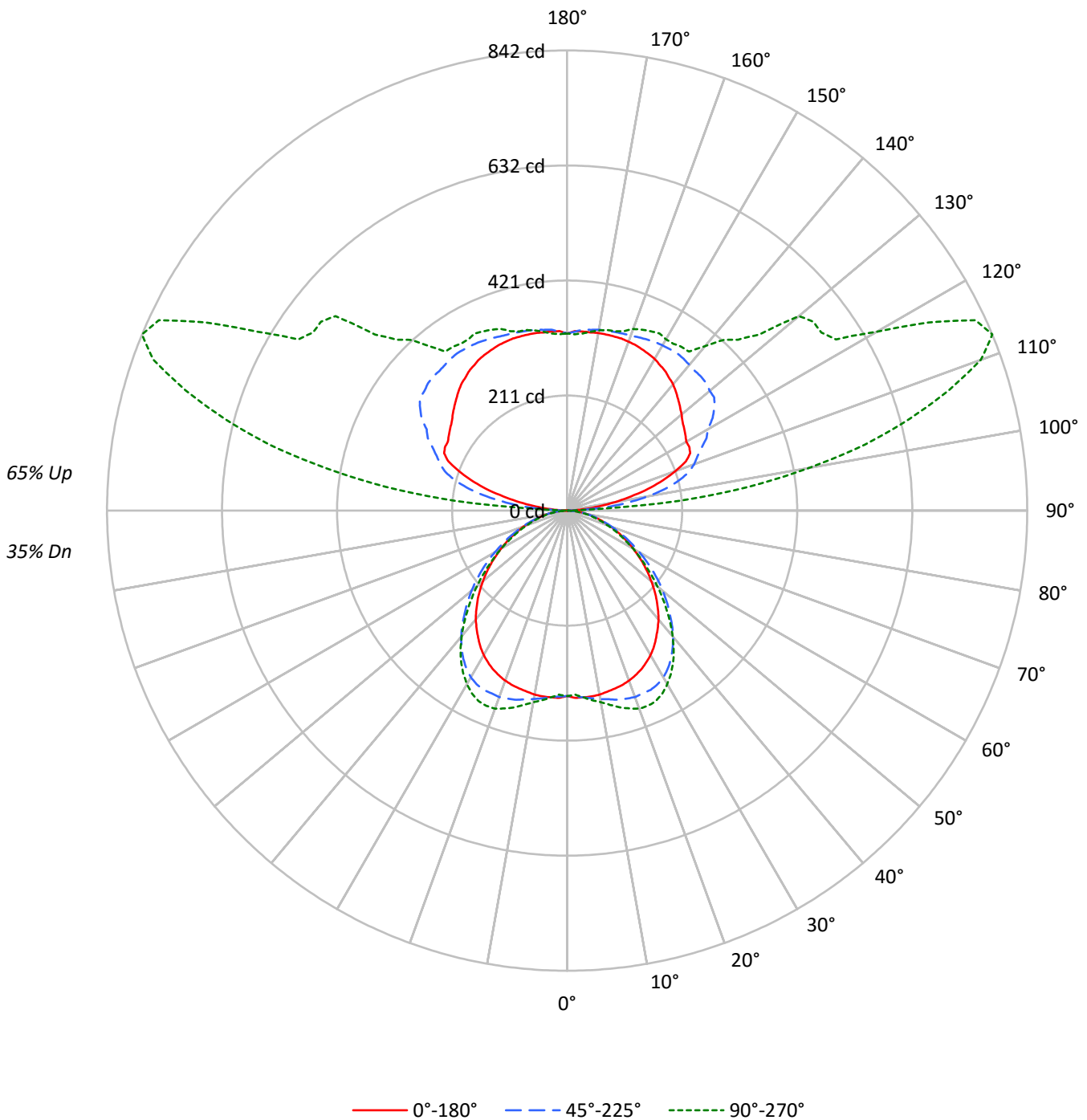
Lumens per Lamp: N/A
Luminaire Lumens: 3018.8 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.48 / 1.48
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

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



TEST NUMBER: P183516
CATALOG NUMBER: MB-WS-1L35-1D-UNV-4-STD

Luminous Intensity Polar Plot





TEST NUMBER: P183516

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

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	94	90	86	83	85	82	78	76	66	63	61	51	49	48	37	36	36	29
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30	25
3	78	69	62	56	71	63	57	52	51	46	43	39	36	34	29	27	26	21
4	72	61	53	48	64	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	46	41	59	49	43	37	40	35	31	31	28	25	23	21	19	16
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17	14
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	29	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2719	2719	2719
5°	2744	2657	2630
10°	2752	2645	2637
15°	2753	2663	2690
20°	2765	2673	2734
25°	2758	2660	2699
30°	2730	2607	2568
35°	2668	2484	2382
40°	2594	2312	2143
45°	2482	2093	1878
50°	2344	1875	1614
55°	2196	1642	1363
60°	2032	1396	1140
65°	1874	1162	920
70°	1696	935	724
75°	1503	713	548
80°	1273	489	368
85°	977	273	178



TEST NUMBER: P183516

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	1.1
10°-20°	100.8	3.3
20°-30°	163.7	5.4
30°-40°	199.4	6.6
40°-50°	196.4	6.5
50°-60°	162.6	5.4
60°-70°	113.3	3.8
70°-80°	62.6	2.1
80°-90°	19.0	0.6
90°-100°	110.7	3.7
100°-110°	340.0	11.3
110°-120°	398.2	13.2
120°-130°	342.5	11.3
130°-140°	275.6	9.1
140°-150°	215.3	7.1
150°-160°	159.0	5.3
160°-170°	95.4	3.2
170°-180°	31.5	1.0
0°-30°	297.4	9.9
0°-40°	496.8	16.5
0°-60°	855.7	28.3
0°-90°	1050.6	34.8
90°-120°	848.9	28.1
90°-150°	1682.3	55.7
90°-180°	1968.0	65.2
0°-180°	3018.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	339	339	339	339	339	
5°	343	339	343	343	343	33
15°	337	341	358	369	373	95
25°	320	331	362	380	384	148
35°	284	298	331	338	338	178
45°	232	246	265	264	258	178
55°	170	182	190	181	175	152
65°	111	118	118	111	106	110
75°	59	62	60	56	54	63
85°	18	19	18	15	14	18
90°	0	2	1	1	1	3
95°	31	40	72	182	206	38
105°	154	162	212	539	649	160
115°	248	253	271	565	824	240
125°	261	293	329	487	568	235
135°	287	304	346	400	442	222
145°	312	320	351	360	366	195
155°	325	328	345	358	362	150
165°	330	331	338	339	339	93
175°	329	329	332	330	325	31
180°	324	324	324	324	324	



TEST NUMBER: P183516

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	339.4	339.4	339.4	339.4	339.4
2.5°	343.0	339.4	340.6	340.6	337.1
5°	343.0	339.4	343.0	343.0	343.0
7.5°	343.0	340.6	346.5	348.9	350.1
10°	341.8	340.6	350.1	354.8	356.0
12.5°	339.4	340.6	353.6	361.9	364.3
15°	337.1	340.6	358.4	369.0	372.6
17.5°	334.7	339.4	360.7	374.9	379.7
20°	331.2	338.3	363.1	378.5	385.6
22.5°	326.4	334.7	361.9	379.7	386.7
25°	320.5	331.2	361.9	379.7	384.4
27.5°	313.4	325.2	358.4	374.9	377.3
30°	305.1	317.0	352.4	365.5	366.6
32.5°	295.7	309.9	343.0	352.4	353.6
35°	283.9	298.0	331.2	338.3	338.3
37.5°	272.0	287.4	317.0	320.5	320.5
40°	260.2	274.4	301.6	302.8	300.4
42.5°	246.0	260.2	283.9	283.9	279.1
45°	231.8	246.0	264.9	263.7	257.8
47.5°	216.4	230.6	247.2	242.5	236.5
50°	201.1	215.3	228.3	221.2	215.3
52.5°	185.7	199.9	209.3	201.1	195.1
55°	170.3	182.1	190.4	181.0	175.0
57.5°	154.9	165.6	171.5	162.0	156.1
60°	139.6	149.0	152.6	144.3	139.6
62.5°	125.4	133.6	134.8	126.6	121.8
65°	111.2	118.3	118.3	111.2	106.4
67.5°	97.0	102.9	101.7	95.8	92.3
70°	84.0	88.7	87.5	81.6	78.1
72.5°	71.0	74.5	73.3	68.6	66.2
75°	59.1	61.5	60.3	55.6	54.4
77.5°	47.3	49.7	48.5	44.9	42.6
80°	36.7	39.0	36.7	34.3	33.1
82.5°	26.0	28.4	27.2	24.8	23.7
85°	17.7	18.9	17.7	15.4	14.2
87.5°	8.3	9.5	8.3	5.9	5.9
90°	0.0	2.4	1.2	1.2	1.2
92.5°	11.8	16.6	22.5	37.8	26.0
95°	30.8	40.2	72.1	182.1	205.8
97.5°	58.0	67.4	112.4	289.8	335.9
100°	87.5	99.3	150.2	382.0	449.4
102.5°	119.5	131.3	183.3	466.0	558.2
105°	153.8	162.0	211.7	539.3	649.3
107.5°	183.3	190.4	233.0	593.7	732.1
110°	210.5	215.3	247.2	616.2	805.4



TEST NUMBER: P183516

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	235.4	235.4	257.8	602.0	842.1
115°	248.4	253.1	270.8	565.3	824.4
117.5°	251.9	266.1	287.4	537.0	745.1
120°	251.9	282.7	296.9	519.2	654.0
122.5°	256.6	293.3	315.8	499.1	583.1
125°	261.4	293.3	328.8	487.3	567.7
127.5°	266.1	289.8	339.4	482.5	567.7
130°	273.2	293.3	340.6	453.0	553.5
132.5°	280.3	299.2	345.4	405.7	476.6
135°	287.4	304.0	346.5	399.8	442.3
137.5°	294.5	307.5	346.5	392.7	423.4
140°	301.6	312.2	347.7	371.4	392.7
142.5°	306.3	317.0	350.1	360.7	366.6
145°	312.2	320.5	351.3	359.5	365.5
147.5°	315.8	322.9	350.1	359.5	361.9
150°	320.5	325.2	348.9	363.1	361.9
152.5°	322.9	326.4	347.7	360.7	365.5
155°	325.2	327.6	345.4	358.4	361.9
157.5°	327.6	328.8	343.0	354.8	358.4
160°	328.8	330.0	340.6	350.1	353.6
162.5°	330.0	330.0	339.4	341.8	344.2
165°	330.0	331.2	338.3	339.4	339.4
167.5°	330.0	332.3	337.1	338.3	338.3
170°	330.0	332.3	335.9	334.7	334.7
172.5°	328.8	330.0	333.5	331.2	330.0
175°	328.8	328.8	332.3	330.0	325.2
177.5°	328.8	326.4	327.6	325.2	322.9
180°	324.1	324.1	324.1	324.1	324.1

(END OF REPORT)