

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: P183572

Luminaire Tested: **MB-WS-2L30-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183572
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-2L30-1D-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: 3388.1 lumens
Efficiency: N/A
Efficacy: 95.4 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

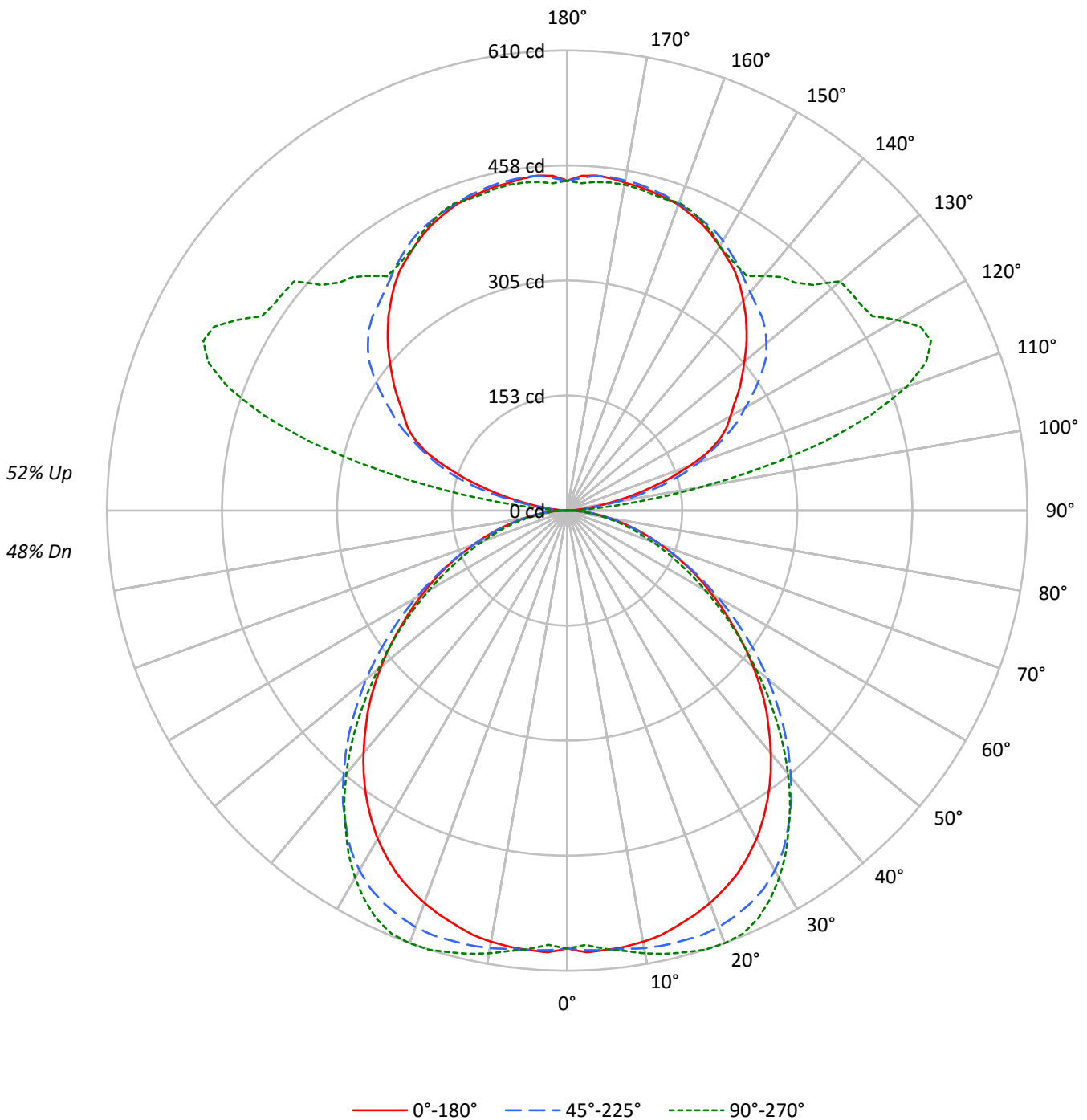
Input Watts (W): 35.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4649	4649	4649
5°	4678	4530	4473
10°	4673	4450	4415
15°	4647	4386	4374
20°	4621	4325	4327
25°	4580	4225	4194
30°	4496	4073	3936
35°	4361	3832	3607
40°	4189	3536	3249
45°	3996	3207	2853
50°	3754	2856	2447
55°	3477	2484	2078
60°	3223	2116	1726
65°	2966	1756	1400
70°	2666	1410	1105
75°	2345	1073	829
80°	1971	737	552
85°	1491	393	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	1.6
10°-20°	166.3	4.9
20°-30°	261.1	7.7
30°-40°	310.5	9.2
40°-50°	302.8	8.9
50°-60°	249.5	7.4
60°-70°	173.5	5.1
70°-80°	95.4	2.8
80°-90°	28.4	0.8
90°-100°	38.3	1.1
100°-110°	196.3	5.8
110°-120°	301.3	8.9
120°-130°	314.6	9.3
130°-140°	287.9	8.5
140°-150°	245.9	7.3
150°-160°	194.7	5.7
160°-170°	123.7	3.7
170°-180°	42.2	1.2
0°-30°	483.2	14.3
0°-40°	793.7	23.4
0°-60°	1345.9	39.7
0°-90°	1643.2	48.5
90°-120°	535.9	15.8
90°-150°	1384.3	40.9
90°-180°	1745.0	51.5
0°-180°	3388.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	585	579	585	583	583	56
15°	569	570	590	603	606	161
25°	532	541	575	592	597	245
35°	464	475	511	514	512	290
45°	373	387	406	397	392	287
55°	270	282	288	275	267	242
65°	176	182	179	169	162	174
75°	92	95	91	85	82	98
85°	27	28	26	23	21	28
90°	0	1	1	1	1	2
95°	14	16	18	40	44	20
105°	111	111	131	287	352	118
115°	223	220	230	403	532	216
125°	278	295	314	420	475	249
135°	336	342	365	399	427	260
145°	387	389	396	392	394	242
155°	420	419	424	424	423	194
165°	437	437	440	436	434	124
175°	446	441	446	443	437	42
180°	437	437	437	437	437	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.4	580.4	580.4	580.4	580.4
2.5°	586.1	579.0	583.3	581.8	576.2
5°	584.7	579.0	584.7	583.3	583.3
7.5°	583.3	577.6	586.1	588.9	588.9
10°	580.4	576.2	588.9	593.2	596.0
12.5°	576.2	573.3	590.4	598.9	601.7
15°	569.1	570.5	590.4	603.1	606.0
17.5°	562.0	566.2	590.4	604.5	610.2
20°	553.5	559.1	587.5	604.5	610.2
22.5°	543.5	550.6	581.8	600.3	607.4
25°	532.2	540.7	574.7	591.8	597.4
27.5°	518.0	527.9	564.8	579.0	581.8
30°	502.4	512.3	550.6	560.6	562.0
32.5°	483.9	496.7	533.6	539.3	539.3
35°	464.1	475.4	510.9	513.7	512.3
37.5°	442.8	455.5	488.2	486.8	485.3
40°	420.1	432.8	461.2	458.4	455.5
42.5°	395.9	410.1	434.2	428.6	424.3
45°	373.2	387.4	405.9	397.4	391.7
47.5°	347.7	361.9	376.1	367.6	359.0
50°	322.1	334.9	347.7	333.5	326.4
52.5°	296.6	309.4	317.9	305.1	296.6
55°	269.6	282.4	288.1	275.3	266.8
57.5°	245.5	255.4	259.7	246.9	238.4
60°	221.4	229.9	231.3	220.0	211.4
62.5°	198.7	205.8	204.4	193.0	185.9
65°	176.0	181.6	178.8	168.9	161.8
67.5°	153.3	157.5	154.7	146.2	140.5
70°	132.0	136.2	132.0	123.5	119.2
72.5°	112.1	114.9	110.7	103.6	99.3
75°	92.2	95.1	90.8	85.1	82.3
77.5°	73.8	75.2	72.4	68.1	65.3
80°	56.8	58.2	55.3	52.5	49.7
82.5°	41.2	42.6	39.7	38.3	35.5
85°	27.0	28.4	25.5	22.7	21.3
87.5°	12.8	14.2	11.4	9.9	8.5
90°	0.0	1.4	1.4	1.4	1.4
92.5°	4.3	5.7	5.7	8.5	8.5
95°	14.2	15.6	18.4	39.7	44.0
97.5°	31.2	32.6	39.7	93.7	103.6
100°	52.5	55.3	66.7	158.9	180.2
102.5°	80.9	82.3	99.3	227.1	266.8
105°	110.7	110.7	130.6	286.7	351.9
107.5°	141.9	137.7	160.4	334.9	422.9
110°	173.1	167.5	184.5	367.6	478.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	201.5	194.4	207.2	387.4	515.1
115°	222.8	220.0	229.9	403.0	532.2
117.5°	238.4	242.7	254.0	414.4	527.9
120°	249.8	264.0	272.5	424.3	505.2
122.5°	262.5	282.4	293.8	421.5	479.7
125°	278.1	295.2	313.6	420.1	475.4
127.5°	292.3	303.7	332.1	421.5	474.0
130°	306.5	316.5	344.8	411.5	472.6
132.5°	322.1	329.2	356.2	397.4	442.8
135°	336.3	342.0	364.7	398.8	427.2
137.5°	350.5	353.4	370.4	400.2	420.1
140°	363.3	364.7	377.5	390.3	405.9
142.5°	376.1	377.5	386.0	387.4	391.7
145°	387.4	388.8	395.9	391.7	394.5
147.5°	395.9	397.4	404.4	398.8	398.8
150°	404.4	404.4	413.0	407.3	404.4
152.5°	413.0	411.5	420.1	415.8	415.8
155°	420.1	418.6	424.3	424.3	422.9
157.5°	425.7	424.3	428.6	431.4	430.0
160°	431.4	430.0	432.8	432.8	434.2
162.5°	434.2	434.2	437.1	432.8	432.8
165°	437.1	437.1	439.9	435.7	434.2
167.5°	439.9	439.9	442.8	438.5	437.1
170°	441.3	441.3	444.2	439.9	438.5
172.5°	444.2	442.8	445.6	441.3	438.5
175°	445.6	441.3	445.6	442.8	437.1
177.5°	444.2	439.9	441.3	437.1	434.2
180°	437.1	437.1	437.1	437.1	437.1

(END OF REPORT)