

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: P183520

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183520
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-5L35-1D-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

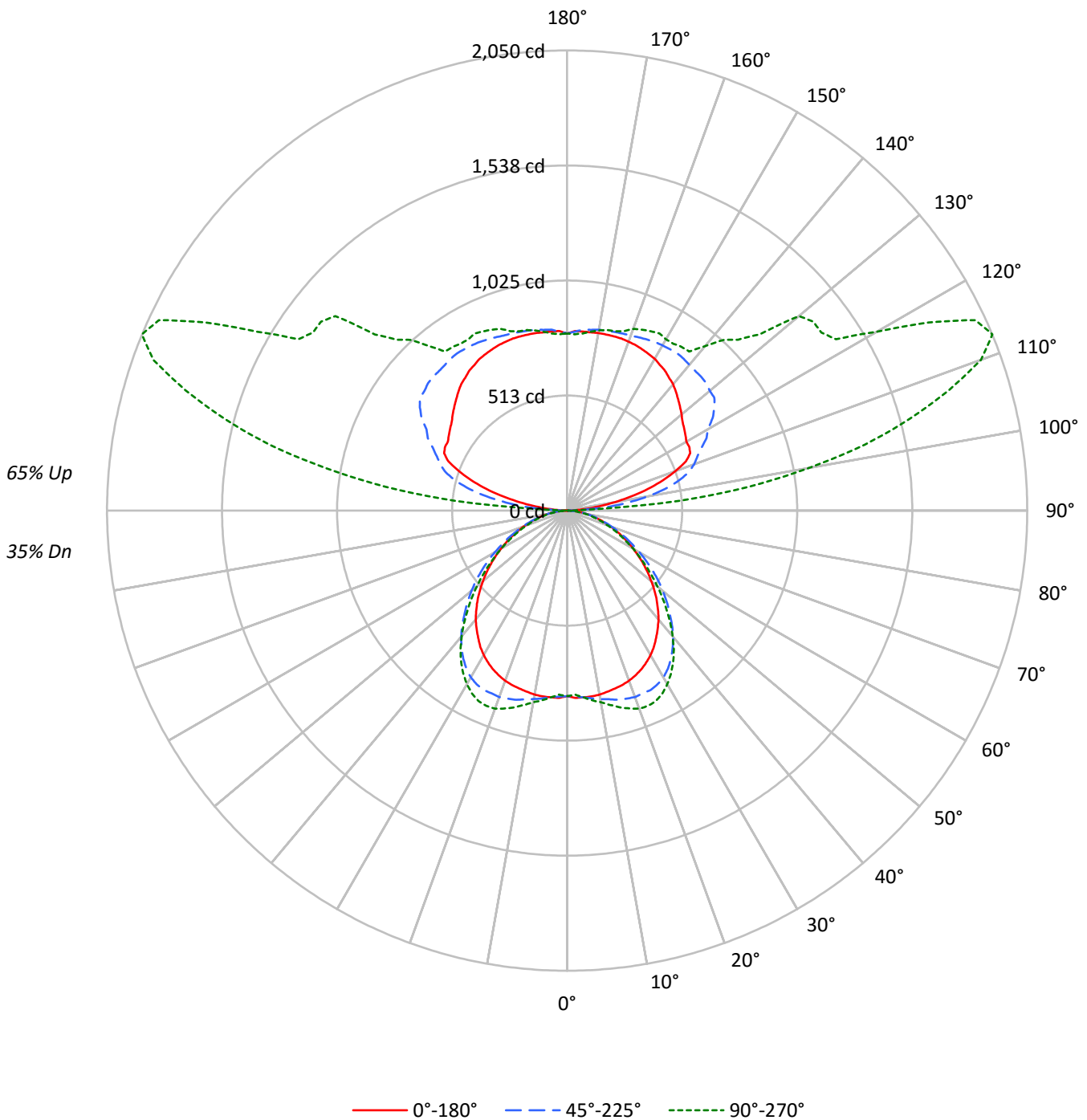
Lumens per Lamp: N/A
Luminaire Lumens: 7350.8 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.48 / 1.48
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

Input Watts (W): 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	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°	6621	6621	6621
5°	6682	6470	6405
10°	6701	6441	6422
15°	6703	6483	6549
20°	6732	6509	6658
25°	6716	6479	6571
30°	6649	6348	6253
35°	6495	6048	5799
40°	6317	5630	5217
45°	6044	5097	4572
50°	5706	4566	3930
55°	5348	3998	3319
60°	4946	3398	2775
65°	4562	2828	2242
70°	4130	2277	1763
75°	3662	1736	1334
80°	3098	1190	896
85°	2385	666	433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	1.1
10°-20°	245.4	3.3
20°-30°	398.6	5.4
30°-40°	485.5	6.6
40°-50°	478.2	6.5
50°-60°	395.9	5.4
60°-70°	275.9	3.8
70°-80°	152.4	2.1
80°-90°	46.2	0.6
90°-100°	269.5	3.7
100°-110°	827.9	11.3
110°-120°	969.7	13.2
120°-130°	833.9	11.3
130°-140°	671.1	9.1
140°-150°	524.3	7.1
150°-160°	387.1	5.3
160°-170°	232.4	3.2
170°-180°	76.8	1.0
0°-30°	724.1	9.9
0°-40°	1209.6	16.5
0°-60°	2083.7	28.3
0°-90°	2558.1	34.8
90°-120°	2067.1	28.1
90°-150°	4096.4	55.7
90°-180°	4793.0	65.2
0°-180°	7350.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	835	826	835	835	835	80
15°	821	829	873	898	907	232
25°	780	806	881	924	936	359
35°	691	726	806	824	824	432
45°	564	599	645	642	628	435
55°	415	444	464	441	426	371
65°	271	288	288	271	259	268
75°	144	150	147	135	132	153
85°	43	46	43	37	35	44
90°	0	6	3	3	3	7
95°	75	98	176	444	501	92
105°	374	394	516	1313	1581	389
115°	605	616	660	1377	2007	584
125°	636	714	801	1186	1382	571
135°	700	740	844	973	1077	541
145°	760	780	855	876	890	476
155°	792	798	841	873	881	366
165°	804	806	824	826	826	228
175°	801	801	809	804	792	76
180°	789	789	789	789	789	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.5	826.5	826.5	826.5	826.5
2.5°	835.2	826.5	829.4	829.4	820.8
5°	835.2	826.5	835.2	835.2	835.2
7.5°	835.2	829.4	843.8	849.6	852.5
10°	832.3	829.4	852.5	864.0	866.9
12.5°	826.5	829.4	861.1	881.3	887.0
15°	820.8	829.4	872.6	898.5	907.2
17.5°	815.0	826.5	878.4	912.9	924.5
20°	806.4	823.7	884.1	921.6	938.9
22.5°	794.9	815.0	881.3	924.5	941.7
25°	780.5	806.4	881.3	924.5	936.0
27.5°	763.2	792.0	872.6	912.9	918.7
30°	743.0	771.8	858.2	889.9	892.8
32.5°	720.0	754.5	835.2	858.2	861.1
35°	691.2	725.7	806.4	823.7	823.7
37.5°	662.4	699.8	771.8	780.5	780.5
40°	633.6	668.1	734.4	737.3	731.5
42.5°	599.0	633.6	691.2	691.2	679.7
45°	564.5	599.0	645.1	642.2	627.8
47.5°	527.0	561.6	601.9	590.4	576.0
50°	489.6	524.1	555.8	538.5	524.1
52.5°	452.1	486.7	509.7	489.6	475.2
55°	414.7	443.5	463.7	440.6	426.2
57.5°	377.3	403.2	417.6	394.5	380.1
60°	339.8	362.9	371.5	351.3	339.8
62.5°	305.3	325.4	328.3	308.2	296.6
65°	270.7	288.0	288.0	270.7	259.2
67.5°	236.2	250.6	247.7	233.3	224.6
70°	204.5	216.0	213.1	198.7	190.1
72.5°	172.8	181.4	178.6	167.0	161.3
75°	144.0	149.8	146.9	135.4	132.5
77.5°	115.2	121.0	118.1	109.4	103.7
80°	89.3	95.0	89.3	83.5	80.6
82.5°	63.4	69.1	66.2	60.5	57.6
85°	43.2	46.1	43.2	37.4	34.6
87.5°	20.2	23.0	20.2	14.4	14.4
90°	0.0	5.8	2.9	2.9	2.9
92.5°	28.8	40.3	54.7	92.2	63.4
95°	74.9	97.9	175.7	443.5	501.1
97.5°	141.1	164.2	273.6	705.6	817.9
100°	213.1	241.9	365.7	930.2	1094.4
102.5°	290.9	319.7	446.4	1134.7	1359.3
105°	374.4	394.5	515.5	1313.2	1581.1
107.5°	446.4	463.7	567.3	1445.7	1782.7
110°	512.6	524.1	601.9	1500.4	1961.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.1	573.1	627.8	1465.9	2050.5
115°	604.8	616.3	659.5	1376.6	2007.3
117.5°	613.4	648.0	699.8	1307.5	1814.3
120°	613.4	688.3	722.9	1264.3	1592.6
122.5°	624.9	714.2	768.9	1215.3	1419.8
125°	636.5	714.2	800.6	1186.5	1382.4
127.5°	648.0	705.6	826.5	1175.0	1382.4
130°	665.3	714.2	829.4	1103.0	1347.8
132.5°	682.5	728.6	840.9	987.8	1160.6
135°	699.8	740.1	843.8	973.4	1077.1
137.5°	717.1	748.8	843.8	956.1	1031.0
140°	734.4	760.3	846.7	904.3	956.1
142.5°	745.9	771.8	852.5	878.4	892.8
145°	760.3	780.5	855.3	875.5	889.9
147.5°	768.9	786.2	852.5	875.5	881.3
150°	780.5	792.0	849.6	884.1	881.3
152.5°	786.2	794.9	846.7	878.4	889.9
155°	792.0	797.7	840.9	872.6	881.3
157.5°	797.7	800.6	835.2	864.0	872.6
160°	800.6	803.5	829.4	852.5	861.1
162.5°	803.5	803.5	826.5	832.3	838.1
165°	803.5	806.4	823.7	826.5	826.5
167.5°	803.5	809.3	820.8	823.7	823.7
170°	803.5	809.3	817.9	815.0	815.0
172.5°	800.6	803.5	812.1	806.4	803.5
175°	800.6	800.6	809.3	803.5	792.0
177.5°	800.6	794.9	797.7	792.0	786.2
180°	789.1	789.1	789.1	789.1	789.1

(END OF REPORT)