

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: P183515

Luminaire Tested: **MB-WS-5L30-1D-UNV-4-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183515
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-5L30-1D-UNV-4-STD
Description: CORELITE MINIGATOR SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 65% UP / 35% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

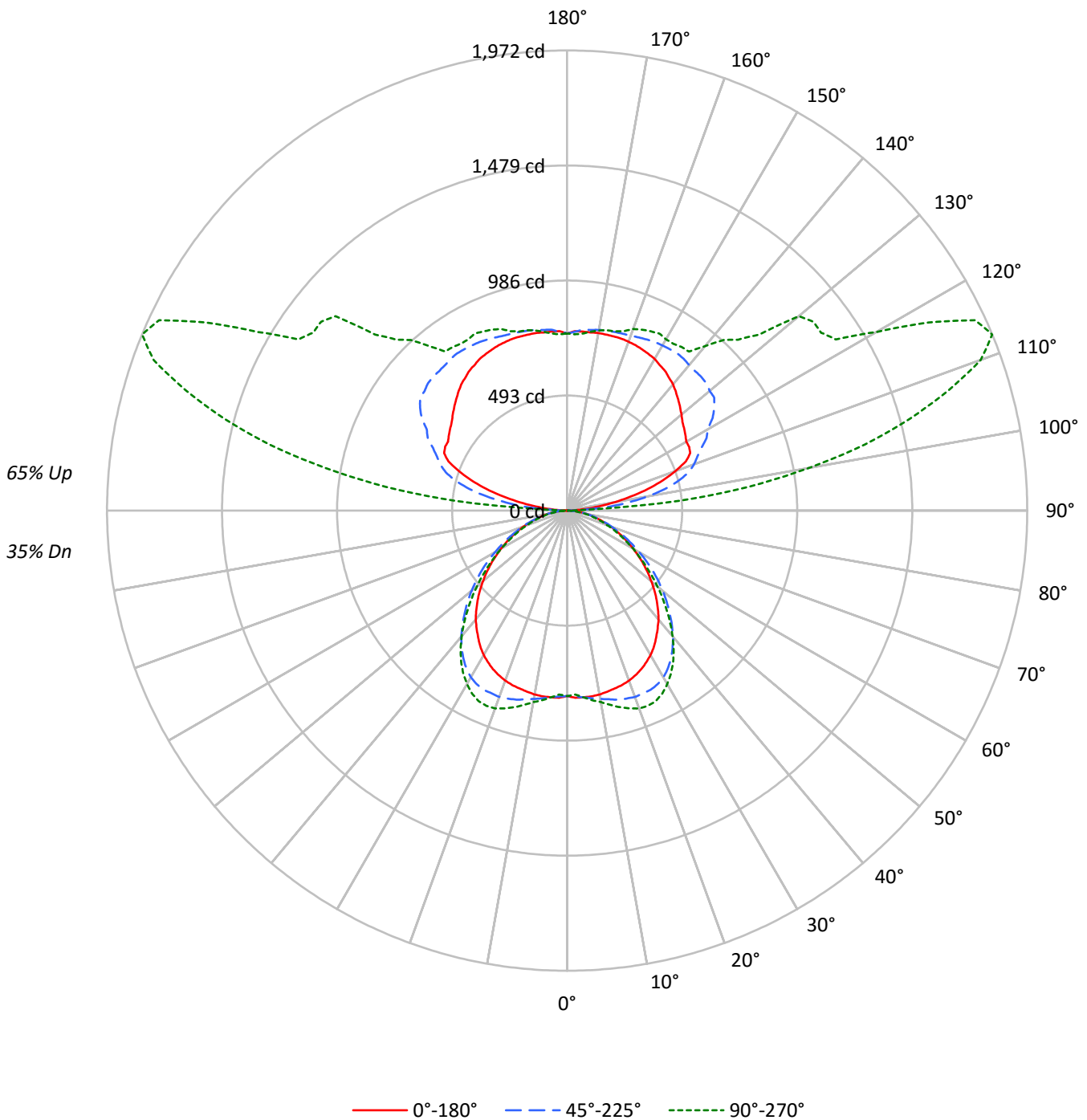
Lumens per Lamp: N/A
Luminaire Lumens: 7068.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.48 / 1.48
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

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	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°	6366	6366	6366
5°	6425	6222	6158
10°	6444	6194	6175
15°	6444	6234	6297
20°	6473	6258	6401
25°	6457	6229	6318
30°	6393	6104	6012
35°	6245	5816	5576
40°	6074	5413	5017
45°	5811	4901	4397
50°	5487	4390	3779
55°	5143	3844	3191
60°	4757	3267	2668
65°	4387	2719	2156
70°	3970	2189	1695
75°	3522	1668	1283
80°	2977	1144	861
85°	2292	640	415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.1
10°-20°	236.0	3.3
20°-30°	383.3	5.4
30°-40°	466.8	6.6
40°-50°	459.8	6.5
50°-60°	380.7	5.4
60°-70°	265.2	3.8
70°-80°	146.5	2.1
80°-90°	44.5	0.6
90°-100°	259.1	3.7
100°-110°	796.0	11.3
110°-120°	932.4	13.2
120°-130°	801.9	11.3
130°-140°	645.3	9.1
140°-150°	504.1	7.1
150°-160°	372.2	5.3
160°-170°	223.4	3.2
170°-180°	73.9	1.0
0°-30°	696.3	9.9
0°-40°	1163.1	16.5
0°-60°	2003.5	28.3
0°-90°	2459.7	34.8
90°-120°	1987.6	28.1
90°-150°	3938.8	55.7
90°-180°	4608.0	65.2
0°-180°	7068.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	803	795	803	803	803	77
15°	789	798	839	864	872	223
25°	750	775	847	889	900	346
35°	665	698	775	792	792	416
45°	543	576	620	618	604	418
55°	399	426	446	424	410	357
65°	260	277	277	260	249	258
75°	138	144	141	130	127	147
85°	42	44	42	36	33	42
90°	0	6	3	3	3	6
95°	72	94	169	426	482	88
105°	360	379	496	1263	1520	374
115°	582	593	634	1324	1930	561
125°	612	687	770	1141	1329	549
135°	673	712	811	936	1036	520
145°	731	750	822	842	856	457
155°	762	767	809	839	847	352
165°	773	775	792	795	795	219
175°	770	770	778	773	762	74
180°	759	759	759	759	759	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.7	794.7	794.7	794.7	794.7
2.5°	803.1	794.7	797.5	797.5	789.2
5°	803.1	794.7	803.1	803.1	803.1
7.5°	803.1	797.5	811.4	816.9	819.7
10°	800.3	797.5	819.7	830.7	833.5
12.5°	794.7	797.5	828.0	847.4	852.9
15°	789.2	797.5	839.1	864.0	872.3
17.5°	783.7	794.7	844.6	877.8	888.9
20°	775.4	792.0	850.1	886.1	902.7
22.5°	764.3	783.7	847.4	888.9	905.5
25°	750.4	775.4	847.4	888.9	900.0
27.5°	733.8	761.5	839.1	877.8	883.4
30°	714.4	742.1	825.2	855.7	858.4
32.5°	692.3	725.5	803.1	825.2	828.0
35°	664.6	697.8	775.4	792.0	792.0
37.5°	636.9	672.9	742.1	750.4	750.4
40°	609.2	642.4	706.1	708.9	703.4
42.5°	576.0	609.2	664.6	664.6	653.5
45°	542.8	576.0	620.3	617.5	603.7
47.5°	506.8	540.0	578.8	567.7	553.8
50°	470.8	504.0	534.4	517.8	504.0
52.5°	434.8	468.0	490.1	470.8	456.9
55°	398.8	426.4	445.8	423.7	409.8
57.5°	362.8	387.7	401.5	379.4	365.5
60°	326.8	348.9	357.2	337.8	326.8
62.5°	293.5	312.9	315.7	296.3	285.2
65°	260.3	276.9	276.9	260.3	249.2
67.5°	227.1	240.9	238.1	224.3	216.0
70°	196.6	207.7	204.9	191.1	182.8
72.5°	166.1	174.5	171.7	160.6	155.1
75°	138.5	144.0	141.2	130.2	127.4
77.5°	110.8	116.3	113.5	105.2	99.7
80°	85.8	91.4	85.8	80.3	77.5
82.5°	60.9	66.5	63.7	58.2	55.4
85°	41.5	44.3	41.5	36.0	33.2
87.5°	19.4	22.2	19.4	13.8	13.8
90°	0.0	5.5	2.8	2.8	2.8
92.5°	27.7	38.8	52.6	88.6	60.9
95°	72.0	94.2	168.9	426.4	481.8
97.5°	135.7	157.8	263.1	678.4	786.4
100°	204.9	232.6	351.7	894.4	1052.3
102.5°	279.7	307.4	429.2	1091.0	1307.0
105°	360.0	379.4	495.7	1262.7	1520.3
107.5°	429.2	445.8	545.5	1390.1	1714.1
110°	492.9	504.0	578.8	1442.7	1885.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	551.1	551.1	603.7	1409.5	1971.6
115°	581.5	592.6	634.1	1323.7	1930.1
117.5°	589.8	623.1	672.9	1257.2	1744.6
120°	589.8	661.8	695.1	1215.7	1531.3
122.5°	600.9	686.7	739.4	1168.6	1365.2
125°	612.0	686.7	769.8	1140.9	1329.2
127.5°	623.1	678.4	794.7	1129.8	1329.2
130°	639.7	686.7	797.5	1060.6	1296.0
132.5°	656.3	700.6	808.6	949.8	1116.0
135°	672.9	711.7	811.4	936.0	1035.7
137.5°	689.5	720.0	811.4	919.4	991.4
140°	706.1	731.1	814.1	869.5	919.4
142.5°	717.2	742.1	819.7	844.6	858.4
145°	731.1	750.4	822.4	841.8	855.7
147.5°	739.4	756.0	819.7	841.8	847.4
150°	750.4	761.5	816.9	850.1	847.4
152.5°	756.0	764.3	814.1	844.6	855.7
155°	761.5	767.1	808.6	839.1	847.4
157.5°	767.1	769.8	803.1	830.7	839.1
160°	769.8	772.6	797.5	819.7	828.0
162.5°	772.6	772.6	794.7	800.3	805.8
165°	772.6	775.4	792.0	794.7	794.7
167.5°	772.6	778.1	789.2	792.0	792.0
170°	772.6	778.1	786.4	783.7	783.7
172.5°	769.8	772.6	780.9	775.4	772.6
175°	769.8	769.8	778.1	772.6	761.5
177.5°	769.8	764.3	767.1	761.5	756.0
180°	758.7	758.7	758.7	758.7	758.7

(END OF REPORT)