

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: P183455

Luminaire Tested: **MB-WS-5L30-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183455
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-5L30-1D-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)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6885.6 lumens
Efficiency: N/A
Efficacy: 86.9 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

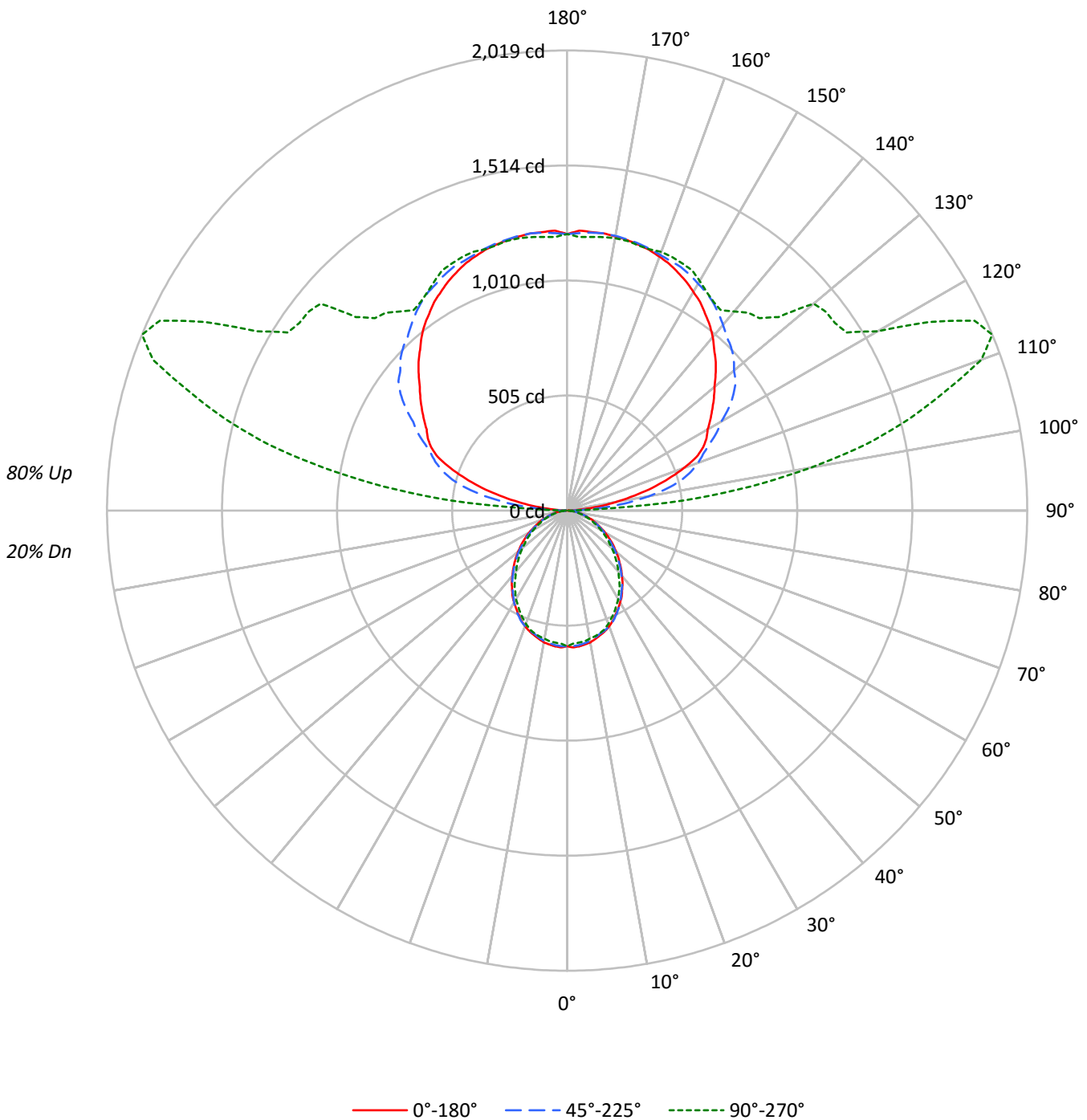
Input Watts (W): 79.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4769	4769	4769
5°	4785	4591	4459
10°	4727	4394	4226
15°	4613	4156	4018
20°	4508	3975	3750
25°	4337	3726	3441
30°	4163	3441	3142
35°	3955	3136	2827
40°	3727	2845	2489
45°	3499	2538	2198
50°	3260	2252	1911
55°	3036	1958	1660
60°	2782	1672	1402
65°	2520	1414	1150
70°	2292	1154	924
75°	1971	884	697
80°	1728	628	461
85°	1375	384	243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	0.8
10°-20°	157.8	2.3
20°-30°	229.8	3.3
30°-40°	259.1	3.8
40°-50°	246.1	3.6
50°-60°	202.6	2.9
60°-70°	142.5	2.1
70°-80°	80.3	1.2
80°-90°	26.6	0.4
90°-100°	270.1	3.9
100°-110°	823.9	12.0
110°-120°	988.0	14.3
120°-130°	913.2	13.3
130°-140°	803.6	11.7
140°-150°	687.5	10.0
150°-160°	540.7	7.9
160°-170°	341.5	5.0
170°-180°	116.3	1.7
0°-30°	443.6	6.4
0°-40°	702.7	10.2
0°-60°	1151.3	16.7
0°-90°	1400.8	20.3
90°-120°	2081.9	30.2
90°-150°	4486.3	65.2
90°-180°	5485.0	79.7
0°-180°	6885.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	598	590	593	590	582	57
15°	565	559	559	559	557	159
25°	504	498	507	493	490	232
35°	421	424	418	407	402	263
45°	327	330	321	307	302	253
55°	235	238	227	216	213	210
65°	150	152	144	136	133	149
75°	78	80	75	72	69	84
85°	25	28	25	22	19	25
90°	3	8	6	3	0	6
95°	75	97	177	440	518	92
105°	388	396	521	1293	1554	406
115°	659	659	687	1349	1972	642
125°	778	828	892	1252	1434	697
135°	922	947	1016	1116	1194	711
145°	1055	1063	1116	1113	1119	661
155°	1152	1144	1180	1188	1196	532
165°	1207	1202	1213	1205	1205	341
175°	1227	1221	1224	1216	1205	117
180°	1213	1213	1213	1213	1213	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.4	595.4	595.4	595.4	595.4
2.5°	600.9	592.6	595.4	592.6	584.3
5°	598.1	589.8	592.6	589.8	581.5
7.5°	592.6	584.3	587.1	584.3	578.8
10°	587.1	578.8	581.5	576.0	570.5
12.5°	576.0	570.5	570.5	564.9	564.9
15°	564.9	559.4	559.4	559.4	556.6
17.5°	553.8	545.5	551.1	551.1	545.5
20°	540.0	531.7	540.0	534.5	528.9
22.5°	523.4	517.8	526.1	515.1	509.5
25°	504.0	498.5	506.8	492.9	490.1
27.5°	484.6	481.8	487.4	473.5	468.0
30°	465.2	462.5	465.2	454.1	448.6
32.5°	445.8	443.1	440.3	429.2	423.7
35°	420.9	423.7	418.1	407.1	401.5
37.5°	398.8	401.5	396.0	382.1	373.8
40°	373.8	379.4	371.1	357.2	348.9
42.5°	351.7	354.5	346.1	332.3	326.8
45°	326.8	329.5	321.2	307.4	301.8
47.5°	304.6	307.4	299.1	285.2	279.7
50°	279.7	282.5	274.1	260.3	254.8
52.5°	257.5	260.3	249.2	238.2	232.6
55°	235.4	238.2	227.1	216.0	213.2
57.5°	213.2	216.0	204.9	196.6	191.1
60°	191.1	193.8	182.8	174.5	171.7
62.5°	168.9	171.7	163.4	155.1	152.3
65°	149.5	152.3	144.0	135.7	132.9
67.5°	130.2	132.9	124.6	119.1	116.3
70°	113.5	113.5	108.0	102.5	99.7
72.5°	94.2	96.9	91.4	85.8	83.1
75°	77.5	80.3	74.8	72.0	69.2
77.5°	63.7	66.5	60.9	58.2	55.4
80°	49.8	52.6	47.1	44.3	41.5
82.5°	36.0	38.8	36.0	33.2	30.5
85°	24.9	27.7	24.9	22.2	19.4
87.5°	11.1	16.6	11.1	11.1	8.3
90°	2.8	8.3	5.5	2.8	0.0
92.5°	27.7	38.8	58.2	99.7	108.0
95°	74.8	96.9	177.2	440.3	517.8
97.5°	141.2	166.2	271.4	689.5	814.1
100°	216.0	240.9	365.5	908.3	1085.5
102.5°	301.8	321.2	451.4	1110.4	1343.1
105°	387.7	396.0	520.6	1293.2	1553.5
107.5°	468.0	473.5	570.5	1431.7	1739.0
110°	545.5	537.2	612.0	1487.1	1932.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	614.8	600.9	645.2	1445.5	2018.7
115°	659.1	659.1	686.8	1348.6	1971.7
117.5°	689.5	708.9	739.4	1298.7	1791.7
120°	711.7	761.5	780.9	1279.4	1572.9
122.5°	744.9	805.8	841.8	1262.7	1453.8
125°	778.1	828.0	891.7	1251.7	1434.4
127.5°	811.4	844.6	933.2	1248.9	1431.7
130°	844.6	872.3	955.4	1199.1	1412.3
132.5°	883.4	911.1	991.4	1113.2	1257.2
135°	922.1	947.1	1016.3	1116.0	1193.5
137.5°	955.4	974.8	1035.7	1116.0	1176.9
140°	994.1	1008.0	1063.4	1093.8	1140.9
142.5°	1027.4	1038.4	1091.1	1093.8	1107.7
145°	1055.1	1063.4	1116.0	1113.2	1118.8
147.5°	1085.5	1088.3	1135.4	1138.1	1138.1
150°	1107.7	1107.7	1149.2	1163.1	1163.1
152.5°	1132.6	1127.1	1165.8	1179.7	1188.0
155°	1152.0	1143.7	1179.7	1188.0	1196.3
157.5°	1171.4	1163.1	1185.2	1199.1	1204.6
160°	1185.2	1176.9	1193.5	1201.8	1207.4
162.5°	1199.1	1188.0	1204.6	1199.1	1201.8
165°	1207.4	1201.8	1212.9	1204.6	1204.6
167.5°	1215.7	1212.9	1218.4	1212.9	1212.9
170°	1221.2	1218.4	1224.0	1215.7	1212.9
172.5°	1226.7	1221.2	1226.7	1215.7	1210.1
175°	1226.7	1221.2	1224.0	1215.7	1204.6
177.5°	1229.5	1218.4	1218.4	1207.4	1201.8
180°	1212.9	1212.9	1212.9	1212.9	1212.9

(END OF REPORT)