

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: HALO

Report Number: P328554

Luminaire Tested: **L815SML18WW927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SML18WW927MB
Description: Small, 1800lm, WW, 2700K, black finish
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1403.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.85 / 0.82
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

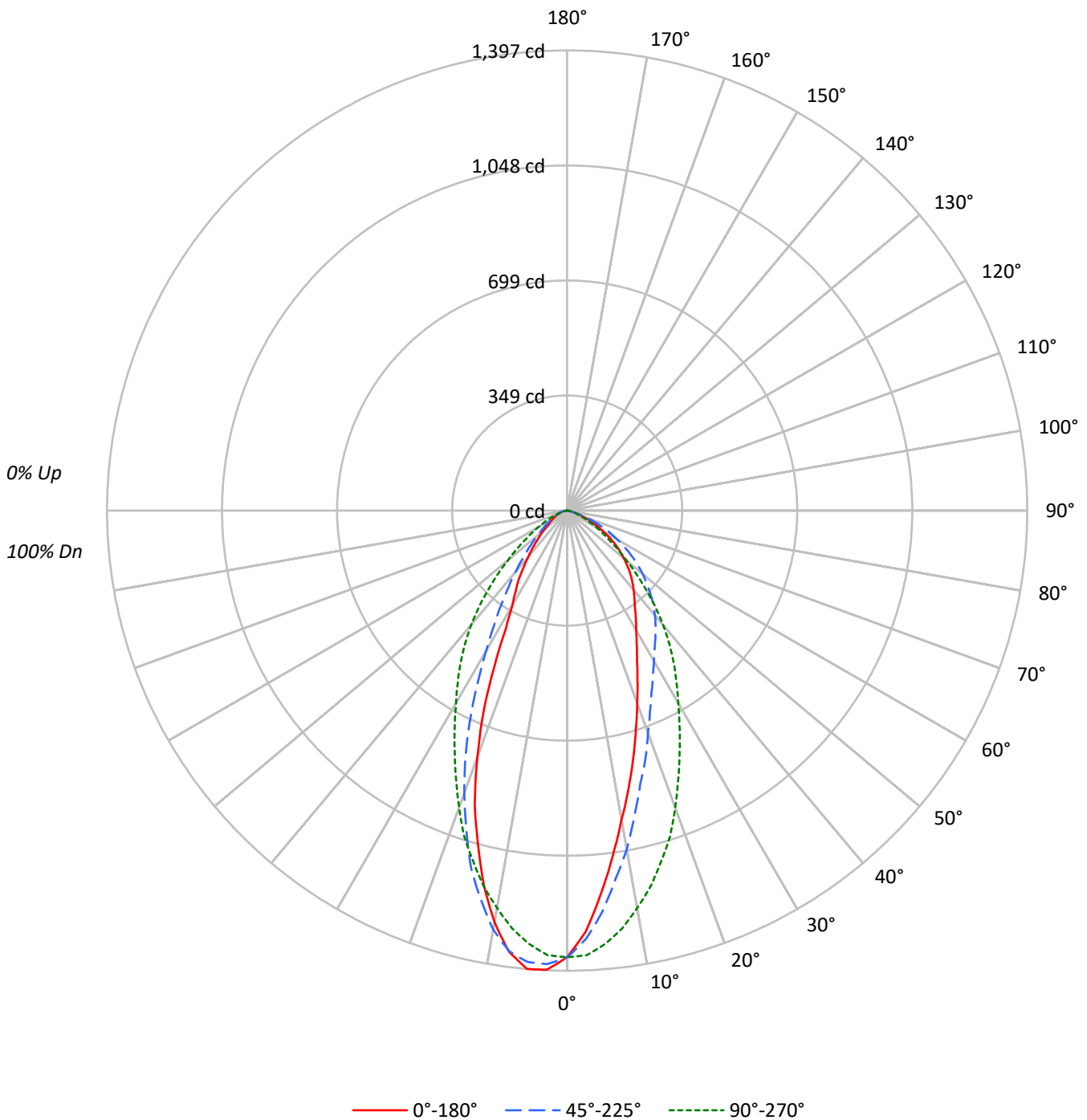
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	297367	297367	297367
5°	257560	290798	307527
10°	211998	272785	282582
15°	176187	250194	237709
20°	145146	223809	185773
25°	121459	195519	126540
30°	106092	170659	84317
35°	96102	150978	68797
40°	89883	129672	52670
45°	84040	104507	40624
50°	76415	80168	31044
55°	68050	60022	24467
60°	55697	44733	21490
65°	42547	32688	19198
70°	30133	21799	17311
75°	18639	14403	16097
80°	6314	10102	13891
85°	0	2516	10064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	8.6
10°-20°	278.2	19.8
20°-30°	302.5	21.6
30°-40°	264.0	18.8
40°-50°	206.0	14.7
50°-60°	134.9	9.6
60°-70°	71.1	5.1
70°-80°	23.2	1.7
80°-90°	3.1	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	700.7	49.9
0°-40°	964.7	68.8
0°-60°	1305.5	93.1
0°-90°	1403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1403.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1356	1356	1356	1356	1356	
5°	1170	1223	1321	1376	1397	105
15°	776	858	1102	1125	1047	216
25°	502	607	808	695	523	233
35°	359	467	564	348	257	226
45°	271	358	337	170	131	208
55°	178	239	157	82	64	157
65°	82	117	63	42	37	83
75°	22	21	17	21	19	25
85°	0	0	1	4	4	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1356.1	1356.1	1356.1	1356.1	1356.1	1356.1	1356.1	1356.1	1356.1
2.5°	1280.1	1290.1	1302.1	1327.1	1351.1	1366.1	1378.1	1388.1	1395.1
5°	1170.1	1199.1	1223.1	1271.1	1321.1	1357.1	1376.1	1388.1	1397.1
7.5°	1058.1	1079.1	1127.1	1207.1	1279.1	1327.1	1349.1	1356.1	1351.1
10°	952.1	976.1	1043.1	1131.1	1225.1	1277.1	1292.1	1284.1	1269.1
12.5°	862.1	885.1	946.1	1061.1	1169.1	1222.1	1210.1	1180.1	1167.1
15°	776.1	793.1	858.1	986.1	1102.1	1143.1	1125.1	1075.1	1047.1
17.5°	694.0	712.0	790.1	916.1	1038.1	1065.1	1017.1	956.1	933.1
20°	622.0	644.0	718.0	850.1	959.1	975.1	913.1	846.1	796.1
22.5°	558.0	581.0	657.0	787.1	881.1	878.1	805.1	721.0	666.0
25°	502.0	528.0	607.0	730.1	808.1	788.1	695.0	590.0	523.0
27.5°	457.0	483.0	564.0	680.0	739.1	701.0	587.0	462.0	401.0
30°	419.0	445.0	527.0	637.0	674.0	615.0	492.0	374.0	333.0
32.5°	388.0	410.0	494.0	603.0	618.0	537.0	413.0	310.0	291.0
35°	359.0	383.0	467.0	570.0	564.0	465.0	348.0	264.0	257.0
37.5°	335.0	359.0	441.0	534.0	509.0	398.0	292.0	226.0	217.0
40°	314.0	337.0	415.0	490.0	453.0	335.0	246.0	194.0	184.0
42.5°	293.0	315.0	387.0	448.0	395.0	279.0	204.0	165.0	156.0
45°	271.0	292.0	358.0	398.0	337.0	230.0	170.0	141.0	131.0
47.5°	248.0	271.0	327.0	352.0	285.0	187.0	141.0	120.0	109.0
50°	224.0	246.0	300.0	309.0	235.0	152.0	117.0	99.0	91.0
52.5°	201.0	221.0	269.0	267.0	196.0	124.0	98.0	85.0	75.0
55°	178.0	195.0	239.0	228.0	157.0	101.0	82.0	72.0	64.0
57.5°	151.0	170.0	207.0	196.0	127.0	82.0	68.0	61.0	57.0
60°	127.0	143.0	176.0	163.0	102.0	67.0	57.0	52.0	49.0
62.5°	106.0	120.0	147.0	133.0	80.0	56.0	49.0	46.0	44.0
65°	82.0	97.0	117.0	104.0	63.0	45.0	42.0	40.0	37.0
67.5°	63.0	76.0	89.0	76.0	46.0	38.0	36.0	34.0	32.0
70°	47.0	57.0	63.0	51.0	34.0	31.0	31.0	29.0	27.0
72.5°	34.0	40.0	39.0	30.0	24.0	25.0	26.0	25.0	23.0
75°	22.0	23.0	21.0	17.0	17.0	20.0	21.0	20.0	19.0
77.5°	13.0	12.0	11.0	10.0	12.0	15.0	17.0	16.0	15.0
80°	5.0	6.0	6.0	6.0	8.0	11.0	13.0	12.0	11.0
82.5°	2.0	2.0	2.0	3.0	5.0	7.0	9.0	8.0	8.0
85°	0.0	0.0	0.0	0.0	1.0	3.0	4.0	4.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)