

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: P328556

Luminaire Tested: **L815SML18WW935MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328556  
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: L815SML18WW935MB  
Description: Small, 1800lm, WW, 3500K, black finish  
Light Source: (1) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1578.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 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

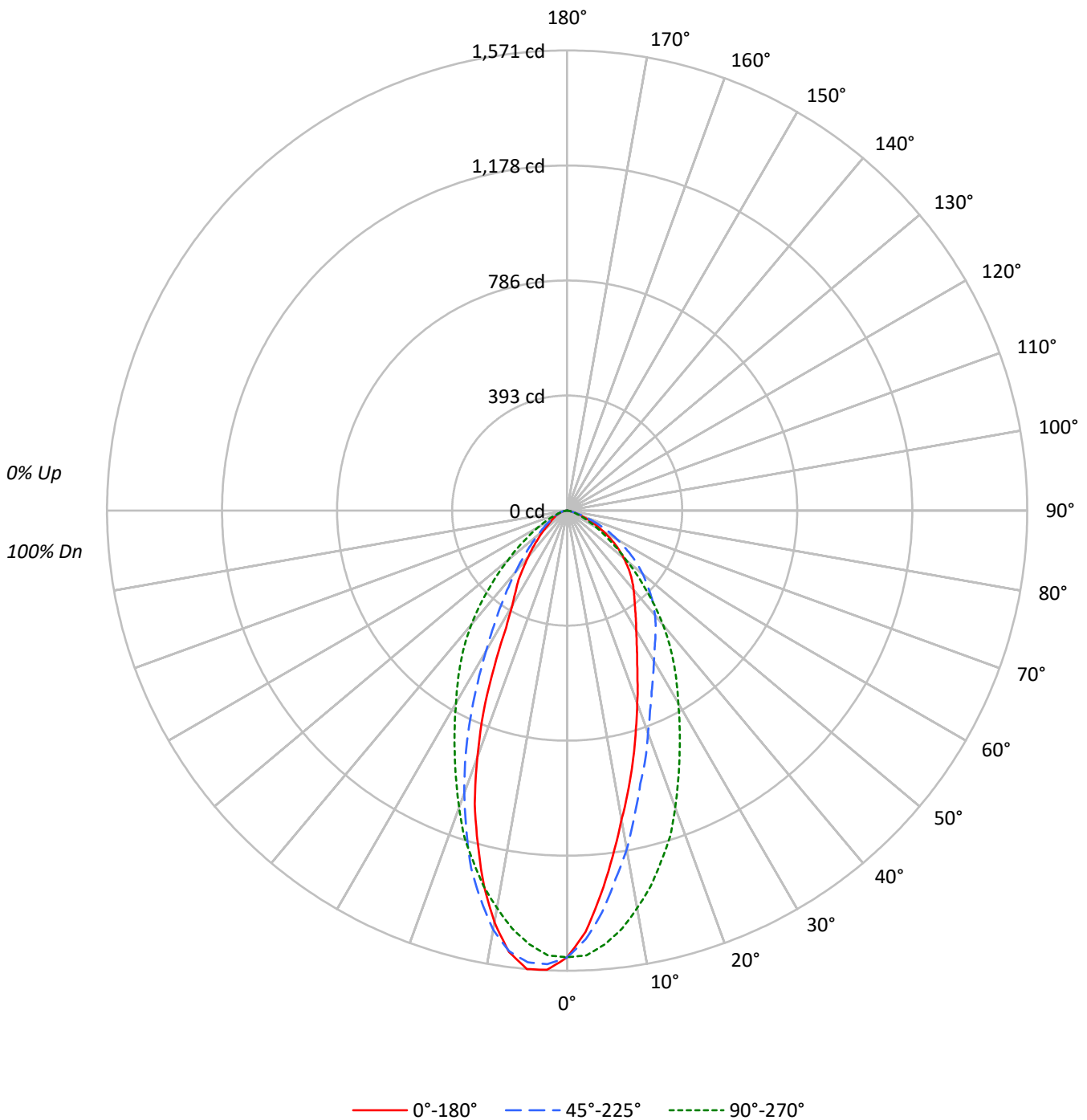
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	334447	334447	334447
5°	289676	327074	345894
10°	238428	306808	317830
15°	198162	281386	267357
20°	163254	251719	208921
25°	136629	219884	142339
30°	119335	191954	94850
35°	108094	169824	77390
40°	101104	145845	59254
45°	94521	117563	45710
50°	85967	90163	34933
55°	76537	67515	27526
60°	62670	50303	24165
65°	47839	36787	21585
70°	33916	24491	19490
75°	20927	16182	18131
80°	7072	11365	15659
85°	0	2768	11322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.9	8.5
10°-20°	312.9	19.8
20°-30°	340.2	21.6
30°-40°	297.0	18.8
40°-50°	231.7	14.7
50°-60°	151.7	9.6
60°-70°	80.0	5.1
70°-80°	26.1	1.7
80°-90°	3.4	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°	788.0	49.9
0°-40°	1085.0	68.8
0°-60°	1468.4	93.1
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1525	1525	1525	1525	1525	
5°	1316	1376	1486	1548	1571	118
15°	873	965	1240	1265	1178	243
25°	565	683	909	782	588	262
35°	404	525	634	391	289	254
45°	305	403	379	191	147	234
55°	200	269	177	92	72	177
65°	92	132	71	47	42	94
75°	25	24	19	24	21	28
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°	1525.2	1525.2	1525.2	1525.2	1525.2	1525.2	1525.2	1525.2	1525.2
2.5°	1439.8	1451.0	1464.5	1492.6	1519.6	1536.5	1550.0	1561.2	1569.1
5°	1316.0	1348.6	1375.6	1429.6	1485.9	1526.4	1547.7	1561.2	1571.4
7.5°	1190.0	1213.7	1267.7	1357.6	1438.6	1492.6	1517.4	1525.2	1519.6
10°	1070.8	1097.8	1173.2	1272.2	1377.9	1436.4	1453.3	1444.3	1427.4
12.5°	969.6	995.5	1064.1	1193.4	1314.9	1374.5	1361.0	1327.3	1312.7
15°	872.9	892.0	965.1	1109.1	1239.5	1285.7	1265.4	1209.2	1177.7
17.5°	780.6	800.9	888.6	1030.3	1167.6	1197.9	1143.9	1075.3	1049.4
20°	699.6	724.4	807.6	956.1	1078.7	1096.7	1027.0	951.6	895.3
22.5°	627.6	653.5	739.0	885.2	991.0	987.6	905.5	811.0	749.1
25°	564.7	593.9	682.8	821.1	908.8	886.4	781.7	663.6	588.3
27.5°	514.0	543.3	634.4	764.9	831.2	788.5	660.3	519.7	451.0
30°	471.3	500.5	592.8	716.5	758.1	691.8	553.4	420.7	374.6
32.5°	436.4	461.2	555.7	678.3	695.1	604.0	464.5	348.7	327.3
35°	403.8	430.8	525.3	641.1	634.4	523.0	391.4	296.9	289.1
37.5°	376.8	403.8	496.0	600.6	572.5	447.7	328.4	254.2	244.1
40°	353.2	379.1	466.8	551.2	509.5	376.8	276.7	218.2	207.0
42.5°	329.6	354.3	435.3	503.9	444.3	313.8	229.5	185.6	175.5
45°	304.8	328.4	402.7	447.7	379.1	258.7	191.2	158.6	147.4
47.5°	279.0	304.8	367.8	395.9	320.6	210.3	158.6	135.0	122.6
50°	252.0	276.7	337.4	347.6	264.3	171.0	131.6	111.4	102.4
52.5°	226.1	248.6	302.6	300.3	220.5	139.5	110.2	95.6	84.4
55°	200.2	219.3	268.8	256.5	176.6	113.6	92.2	81.0	72.0
57.5°	169.8	191.2	232.8	220.5	142.9	92.2	76.5	68.6	64.1
60°	142.9	160.8	198.0	183.3	114.7	75.4	64.1	58.5	55.1
62.5°	119.2	135.0	165.3	149.6	90.0	63.0	55.1	51.7	49.5
65°	92.2	109.1	131.6	117.0	70.9	50.6	47.2	45.0	41.6
67.5°	70.9	85.5	100.1	85.5	51.7	42.7	40.5	38.2	36.0
70°	52.9	64.1	70.9	57.4	38.2	34.9	34.9	32.6	30.4
72.5°	38.2	45.0	43.9	33.7	27.0	28.1	29.2	28.1	25.9
75°	24.7	25.9	23.6	19.1	19.1	22.5	23.6	22.5	21.4
77.5°	14.6	13.5	12.4	11.2	13.5	16.9	19.1	18.0	16.9
80°	5.6	6.7	6.7	6.7	9.0	12.4	14.6	13.5	12.4
82.5°	2.2	2.2	2.2	3.4	5.6	7.9	10.1	9.0	9.0
85°	0.0	0.0	0.0	0.0	1.1	3.4	4.5	4.5	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)