



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  
Eaton Lighting Division  
(formerly Cooper Lighting)

Brand: HALO

Report Number: P328654

Luminaire Tested: **L815SQ10WW927MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-21)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: HALO  
Catalog Number: L815SQ10WW927MB  
Description: Square Track 13x1, 1000lm, WW, 2700K, black finish  
Light Source: (13) 2700K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 948.0 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Spacing Criteria (0/90/45): 0.56 / 0.82 / 0.73  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

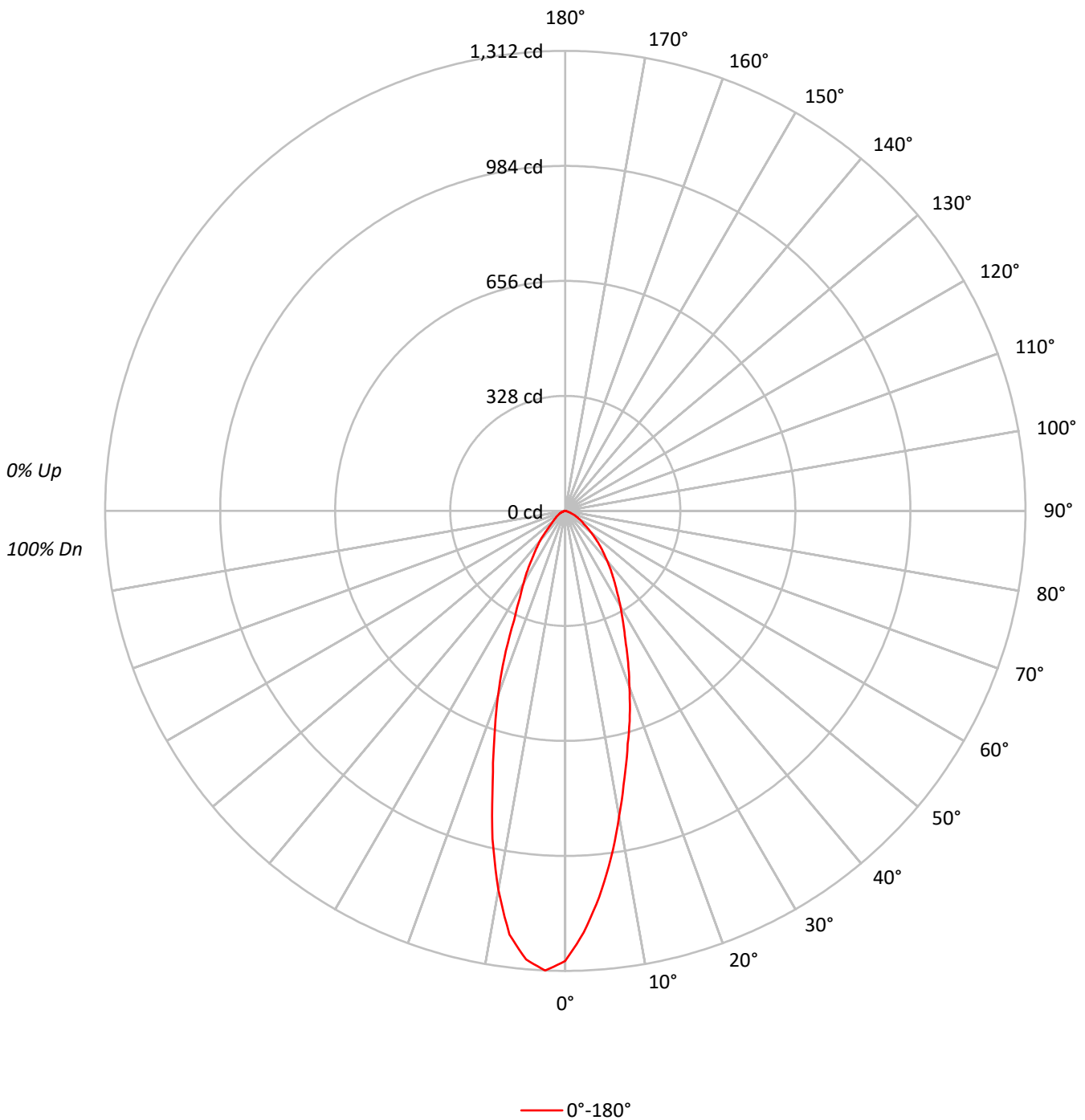
Input Watts (W): 14.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT





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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	93	105	100	96	92	97	93	90	93	91	88	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	89	80	74	70	78	73	69	77	72	69	75	71	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	63	62	62	62	62
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	56	52	51	51	51	51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48	48	48	48

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	124359	124359	124359
5°	107592	121012	124883
10°	86939	118231	107922
15°	68991	107183	80044
20°	55062	93021	57649
25°	43216	74930	36909
30°	35147	57609	26489
35°	28643	40777	19230
40°	23459	26418	14353
45°	18989	16892	8974
50°	14634	10776	6496
55°	10877	7465	5438
60°	8661	5599	4553
65°	6762	3874	3874
70°	4022	2776	3257
75°	2246	1647	2059
80°	279	279	614
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	11.9
10°-20°	251.3	26.5
20°-30°	244.5	25.8
30°-40°	170.9	18.0
40°-50°	94.7	10.0
50°-60°	47.2	5.0
60°-70°	20.9	2.2
70°-80°	5.6	0.6
80°-90°	0.1	0.0
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
<b>0°-30°</b>	<b>608.4</b>	<b>64.2</b>
<b>0°-40°</b>	<b>779.4</b>	<b>82.2</b>
<b>0°-60°</b>	<b>921.4</b>	<b>97.2</b>
<b>0°-90°</b>	<b>948.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>948.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1284	1284	1284	1284	1284	
1°	1252	1263	1276	1288	1295	3
2°	1220	1243	1269	1292	1306	0
3°	1184	1218	1261	1290	1307	7
4°	1145	1189	1253	1282	1295	0
5°	1106	1160	1244	1274	1284	11
6°	1063	1133	1239	1256	1258	0
7°	1020	1106	1233	1237	1232	0
8°	975	1075	1225	1218	1194	15
9°	930	1041	1213	1197	1146	0
10°	884	1008	1202	1176	1097	53
15°	688	830	1069	977	798	148
25°	404	534	701	514	345	188
35°	242	313	345	212	163	152
45°	139	169	123	82	66	107
55°	64	82	44	35	32	60
65°	30	26	17	15	17	28
75°	6	6	4	5	6	7
85°	0	0	0	0	0	0
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°	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1203.5	1215.0	1232.4	1249.3	1265.1	1282.6	1294.6	1307.1	1312.1
5°	1106.4	1127.7	1160.4	1207.9	1244.4	1265.1	1273.9	1277.1	1284.2
7.5°	998.4	1034.9	1092.2	1172.4	1230.2	1253.7	1228.0	1216.0	1218.8
10°	883.8	918.7	1007.6	1114.0	1201.9	1224.2	1176.2	1118.4	1097.1
12.5°	779.1	816.7	921.4	1045.3	1133.1	1151.1	1092.2	998.4	958.5
15°	687.9	727.8	829.8	972.7	1068.7	1073.1	977.1	861.4	798.1
17.5°	611.6	639.9	752.3	886.0	994.5	973.8	860.3	731.6	671.0
20°	534.1	563.0	675.4	803.6	902.3	872.3	739.2	607.7	559.2
22.5°	468.1	493.7	602.3	727.8	804.1	760.5	621.4	493.2	455.5
25°	404.3	433.7	533.6	644.3	701.0	642.7	513.9	396.1	345.3
27.5°	356.2	381.9	467.0	564.6	609.4	546.1	419.0	311.0	281.5
30°	314.2	336.6	412.4	491.5	515.0	459.9	335.0	253.7	236.8
32.5°	275.5	295.7	359.0	422.8	434.3	375.3	267.9	212.2	200.2
35°	242.2	261.3	313.1	357.3	344.8	305.0	211.7	171.3	162.6
37.5°	213.3	227.5	272.8	297.3	275.0	243.9	168.0	134.2	134.8
40°	185.5	198.6	232.4	243.3	208.9	190.4	131.5	103.7	113.5
42.5°	159.8	172.9	199.1	193.7	164.2	147.8	103.1	79.7	87.3
45°	138.6	147.3	169.1	157.1	123.3	114.6	81.8	63.8	65.5
47.5°	116.2	126.6	141.8	123.3	92.2	89.5	63.8	52.9	52.9
50°	97.1	105.8	119.5	95.5	71.5	69.3	50.2	43.6	43.1
52.5°	80.2	88.4	99.3	72.6	54.6	55.6	41.5	37.1	37.1
55°	64.4	70.9	81.8	57.8	44.2	44.2	34.9	31.6	32.2
57.5°	54.0	56.2	64.4	45.3	35.5	34.9	27.8	26.7	27.3
60°	44.7	45.3	48.6	36.6	28.9	27.3	22.9	22.4	23.5
62.5°	36.0	36.0	36.6	28.9	22.4	21.3	18.5	19.1	20.2
65°	29.5	27.8	25.6	22.4	16.9	16.4	15.3	16.4	16.9
67.5°	20.2	20.7	19.1	15.8	13.1	12.5	13.1	13.1	14.2
70°	14.2	14.2	13.1	11.5	9.8	9.8	10.4	10.4	11.5
72.5°	9.3	9.8	8.2	7.6	7.1	6.5	7.6	7.6	8.2
75°	6.0	5.5	5.5	4.4	4.4	4.4	4.9	5.5	5.5
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.3	3.3
80°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)