



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: P328674

Luminaire Tested: **L815SQ20WW927MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328674  
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: L815SQ20WW927MB  
Description: Square Track 13x1, 2000lm, WW, 2700K, black finish  
Light Source: (13) 2700K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1738.0 lumens  
Efficiency: N/A  
Efficacy: 65.1 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

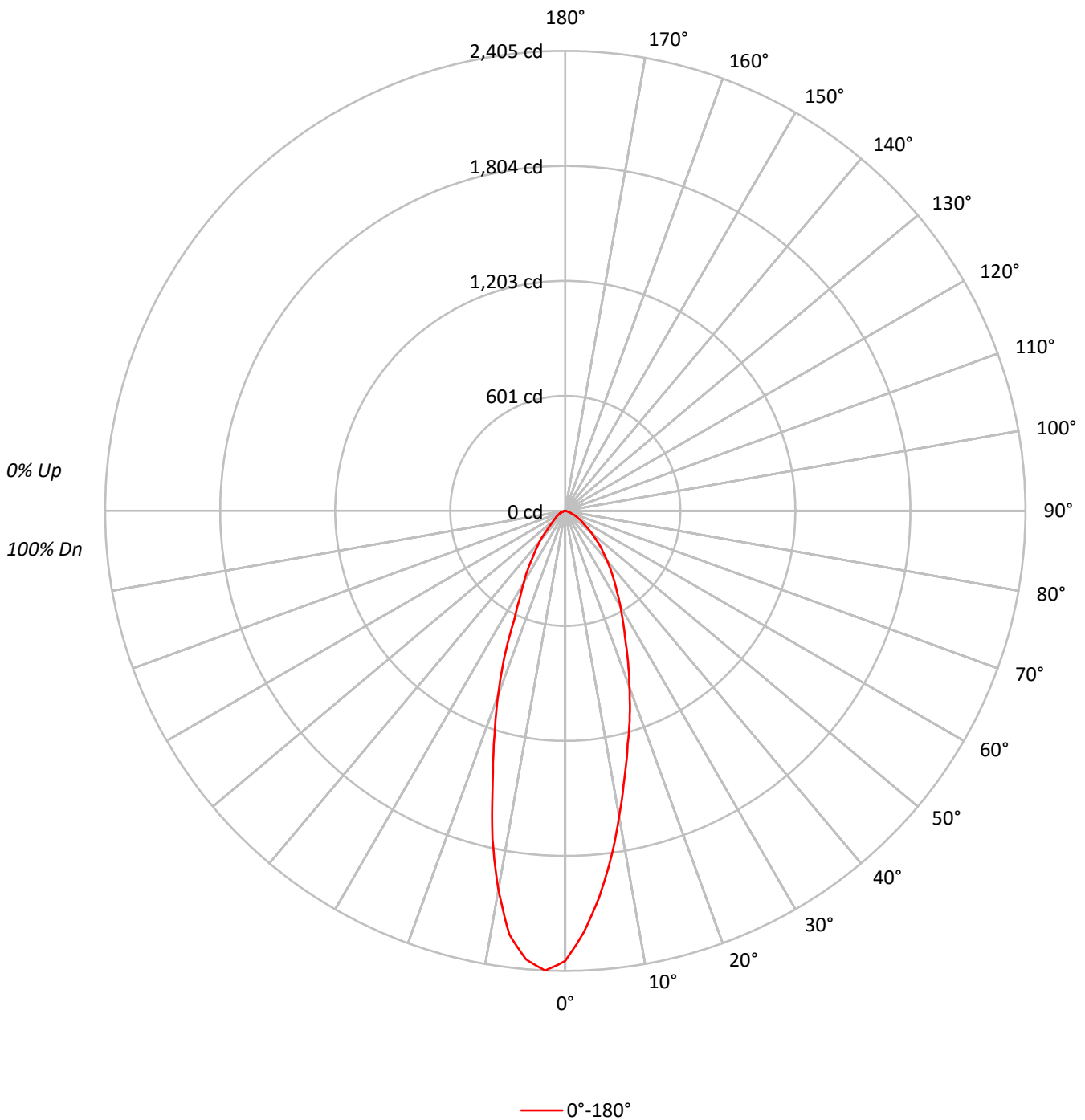
Input Watts (W): 26.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT





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

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

	0°	90°	180°
0°	227987	227987	227987
5°	197253	221856	228955
10°	159389	216748	197861
15°	126489	196514	146758
20°	100948	170546	105691
25°	79216	137375	67672
30°	64444	105620	48559
35°	52521	74754	35254
40°	43010	48448	26304
45°	34799	30963	16440
50°	26827	19743	11906
55°	19930	13681	9965
60°	15888	10269	8331
65°	12378	7106	7106
70°	7364	5098	5948
75°	4117	2994	3743
80°	558	558	1116
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.5	11.9
10°-20°	460.7	26.5
20°-30°	448.3	25.8
30°-40°	313.4	18.0
40°-50°	173.7	10.0
50°-60°	86.6	5.0
60°-70°	38.3	2.2
70°-80°	10.3	0.6
80°-90°	0.2	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
0°-30°	1115.5	64.2
0°-40°	1428.9	82.2
0°-60°	1689.1	97.2
0°-90°	1738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2353	2353	2353	2353	2353	
1°	2295	2316	2340	2361	2374	5
2°	2236	2278	2326	2369	2395	0
3°	2171	2233	2312	2366	2395	12
4°	2100	2180	2297	2351	2375	0
5°	2028	2127	2281	2335	2354	19
6°	1949	2077	2271	2302	2306	0
7°	1870	2027	2261	2268	2258	0
8°	1788	1971	2245	2232	2190	27
9°	1704	1909	2224	2194	2101	0
10°	1620	1847	2203	2156	2011	97
15°	1261	1521	1959	1791	1463	272
25°	741	978	1285	942	633	345
35°	444	574	632	388	298	280
45°	254	310	226	150	120	196
55°	118	150	81	64	59	110
65°	54	47	31	28	31	52
75°	11	10	8	9	10	12
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°	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4
2.5°	2206.4	2227.4	2259.4	2290.4	2319.4	2351.4	2373.4	2396.4	2405.4
5°	2028.4	2067.4	2127.4	2214.4	2281.4	2319.4	2335.4	2341.4	2354.4
7.5°	1830.3	1897.3	2002.4	2149.4	2255.4	2298.4	2251.4	2229.4	2234.4
10°	1620.3	1684.3	1847.3	2042.4	2203.4	2244.4	2156.4	2050.4	2011.4
12.5°	1428.3	1497.3	1689.3	1916.4	2077.4	2110.4	2002.4	1830.3	1757.3
15°	1261.2	1334.2	1521.3	1783.3	1959.4	1967.4	1791.3	1579.3	1463.3
17.5°	1121.2	1173.2	1379.3	1624.3	1823.3	1785.3	1577.3	1341.2	1230.2
20°	979.2	1032.2	1238.2	1473.3	1654.3	1599.3	1355.2	1114.2	1025.2
22.5°	858.2	905.2	1104.2	1334.2	1474.3	1394.3	1139.2	904.2	835.2
25°	741.1	795.1	978.2	1181.2	1285.2	1178.2	942.2	726.1	633.1
27.5°	653.1	700.1	856.2	1035.2	1117.2	1001.2	768.1	570.1	516.1
30°	576.1	617.1	756.1	901.2	944.2	843.2	614.1	465.1	434.1
32.5°	505.1	542.1	658.1	775.1	796.1	688.1	491.1	389.1	367.1
35°	444.1	479.1	574.1	655.1	632.1	559.1	388.1	314.1	298.1
37.5°	391.1	417.1	500.1	545.1	504.1	447.1	308.1	246.0	247.0
40°	340.1	364.1	426.1	446.1	383.1	349.1	241.0	190.0	208.0
42.5°	293.1	317.1	365.1	355.1	301.1	271.0	189.0	146.0	160.0
45°	254.0	270.0	310.1	288.1	226.0	210.0	150.0	117.0	120.0
47.5°	213.0	232.0	260.0	226.0	169.0	164.0	117.0	97.0	97.0
50°	178.0	194.0	219.0	175.0	131.0	127.0	92.0	80.0	79.0
52.5°	147.0	162.0	182.0	133.0	100.0	102.0	76.0	68.0	68.0
55°	118.0	130.0	150.0	106.0	81.0	81.0	64.0	58.0	59.0
57.5°	99.0	103.0	118.0	83.0	65.0	64.0	51.0	49.0	50.0
60°	82.0	83.0	89.0	67.0	53.0	50.0	42.0	41.0	43.0
62.5°	66.0	66.0	67.0	53.0	41.0	39.0	34.0	35.0	37.0
65°	54.0	51.0	47.0	41.0	31.0	30.0	28.0	30.0	31.0
67.5°	37.0	38.0	35.0	29.0	24.0	23.0	24.0	24.0	26.0
70°	26.0	26.0	24.0	21.0	18.0	18.0	19.0	19.0	21.0
72.5°	17.0	18.0	15.0	14.0	13.0	12.0	14.0	14.0	15.0
75°	11.0	10.0	10.0	8.0	8.0	8.0	9.0	10.0	10.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	5.0	6.0	6.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
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)