



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: P328655

Luminaire Tested: **L815SQ10WW930MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328655
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: L815SQ10WW930MB
Description: Square Track 13x1, 1000lm, WW, 3000K, black finish
Light Source: (13) 3000K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 967.0 lumens
Efficiency: N/A
Efficacy: 68.1 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

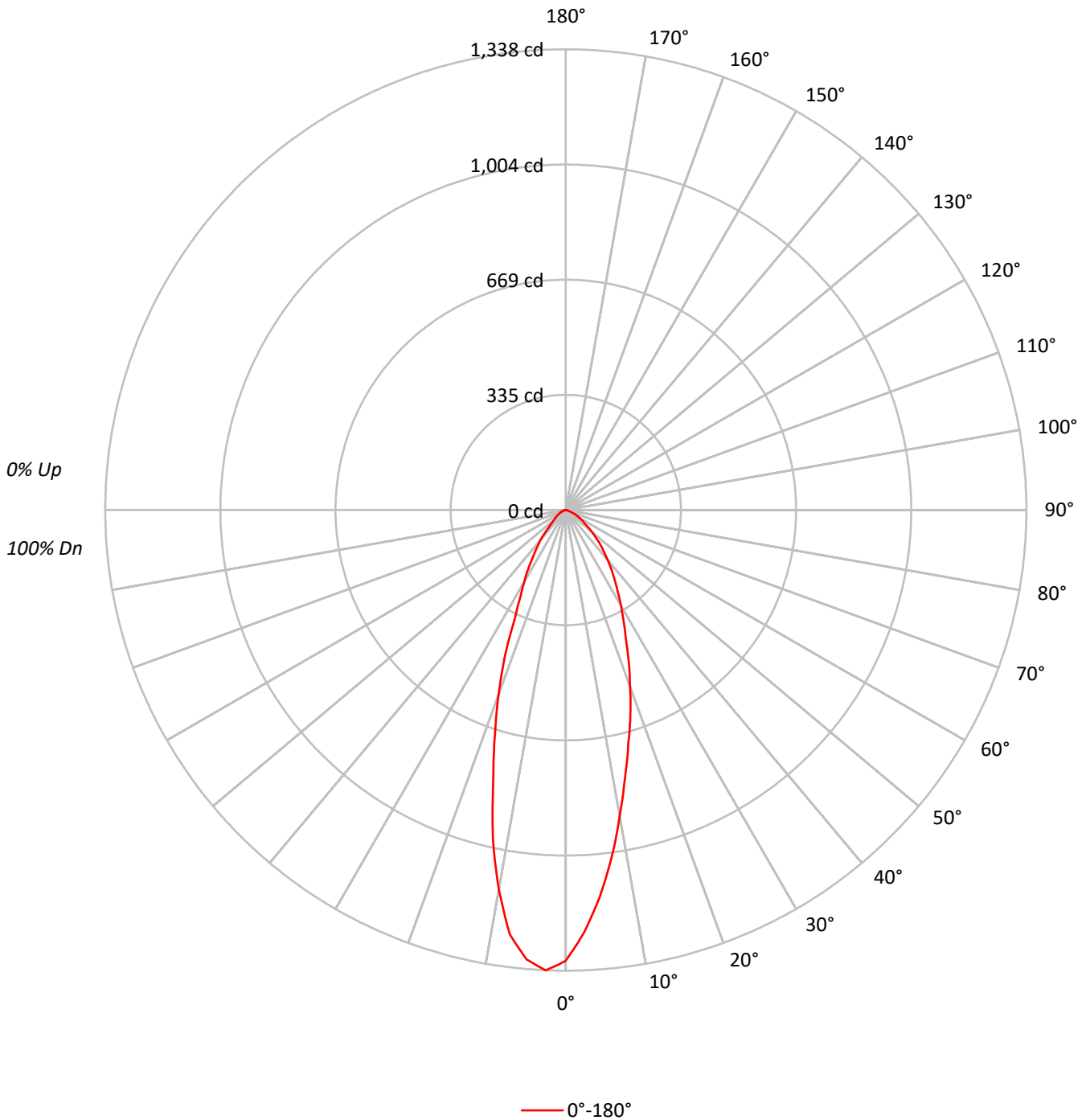
Input Watts (W): 14.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	93	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°	126849	126849	126849
5°	109751	123443	127392
10°	88680	120592	110086
15°	70375	109339	81648
20°	56165	94887	58804
25°	44082	76437	37657
30°	35852	58761	27015
35°	29223	41593	19608
40°	23927	26949	14632
45°	19358	17235	9152
50°	14936	10987	6631
55°	11097	7617	5540
60°	8835	5716	4631
65°	6900	3966	3966
70°	4107	2832	3314
75°	2283	1684	2096
80°	335	335	614
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	11.9
10°-20°	256.3	26.5
20°-30°	249.4	25.8
30°-40°	174.4	18.0
40°-50°	96.6	10.0
50°-60°	48.2	5.0
60°-70°	21.3	2.2
70°-80°	5.8	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
0°-30°	620.6	64.2
0°-40°	795.0	82.2
0°-60°	939.8	97.2
0°-90°	967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1309	1309	1309	1309	1309	
1°	1277	1288	1302	1314	1321	3
2°	1244	1268	1294	1318	1333	0
3°	1208	1242	1286	1316	1333	7
4°	1168	1213	1278	1308	1321	0
5°	1129	1184	1269	1299	1310	11
6°	1085	1156	1264	1281	1283	0
7°	1040	1128	1258	1262	1257	0
8°	995	1097	1249	1242	1218	15
9°	948	1062	1238	1221	1169	0
10°	902	1028	1226	1200	1119	54
15°	702	846	1090	997	814	151
25°	412	544	715	524	352	192
35°	247	319	352	216	166	156
45°	141	172	126	84	67	109
55°	66	84	45	36	33	61
65°	30	26	17	16	17	29
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°	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4
2.5°	1227.6	1239.3	1257.1	1274.4	1290.5	1308.3	1320.5	1333.3	1338.4
5°	1128.6	1150.3	1183.7	1232.1	1269.4	1290.5	1299.4	1302.7	1310.0
7.5°	1018.4	1055.7	1114.1	1195.9	1254.9	1278.8	1252.7	1240.4	1243.2
10°	901.5	937.1	1027.8	1136.4	1225.9	1248.8	1199.8	1140.8	1119.1
12.5°	794.7	833.1	939.9	1066.2	1155.8	1174.2	1114.1	1018.4	977.8
15°	701.7	742.4	846.4	992.2	1090.2	1094.6	996.7	878.7	814.1
17.5°	623.8	652.8	767.4	903.7	1014.5	993.3	877.6	746.3	684.5
20°	544.8	574.3	688.9	819.7	920.4	889.8	754.0	619.9	570.4
22.5°	477.5	503.6	614.4	742.4	820.3	775.7	633.8	503.1	464.7
25°	412.4	442.4	544.2	657.2	715.1	655.5	524.2	404.0	352.3
27.5°	363.4	389.5	476.4	576.0	621.6	557.0	427.4	317.2	287.1
30°	320.5	343.4	420.7	501.4	525.3	469.1	341.7	258.8	241.5
32.5°	281.0	301.6	366.2	431.3	443.0	382.9	273.2	216.5	204.2
35°	247.1	266.6	319.4	364.5	351.7	311.1	215.9	174.7	165.8
37.5°	217.6	232.1	278.2	303.3	280.5	248.8	171.4	136.9	137.5
40°	189.2	202.6	237.1	248.2	213.1	194.2	134.1	105.7	115.7
42.5°	163.1	176.4	203.1	197.6	167.5	150.8	105.2	81.2	89.0
45°	141.3	150.3	172.5	160.3	125.8	116.9	83.5	65.1	66.8
47.5°	118.5	129.1	144.7	125.8	94.0	91.3	65.1	54.0	54.0
50°	99.1	108.0	121.9	97.4	72.9	70.7	51.2	44.5	44.0
52.5°	81.8	90.2	101.3	74.0	55.6	56.8	42.3	37.8	37.8
55°	65.7	72.3	83.5	59.0	45.1	45.1	35.6	32.3	32.8
57.5°	55.1	57.3	65.7	46.2	36.2	35.6	28.4	27.3	27.8
60°	45.6	46.2	49.5	37.3	29.5	27.8	23.4	22.8	23.9
62.5°	36.7	36.7	37.3	29.5	22.8	21.7	18.9	19.5	20.6
65°	30.1	28.4	26.2	22.8	17.3	16.7	15.6	16.7	17.3
67.5°	20.6	21.1	19.5	16.1	13.4	12.8	13.4	13.4	14.5
70°	14.5	14.5	13.4	11.7	10.0	10.0	10.6	10.6	11.7
72.5°	9.5	10.0	8.3	7.8	7.2	6.7	7.8	7.8	8.3
75°	6.1	5.6	5.6	4.5	4.5	4.5	5.0	5.6	5.6
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	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)