

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: P328653

Luminaire Tested: **L815SQ10WF940MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-20)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SQ10WF940MB  
Description: Square Track 13x1, 1000lm, 60°, 4000K, black finish  
Light Source: (13) 4000K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

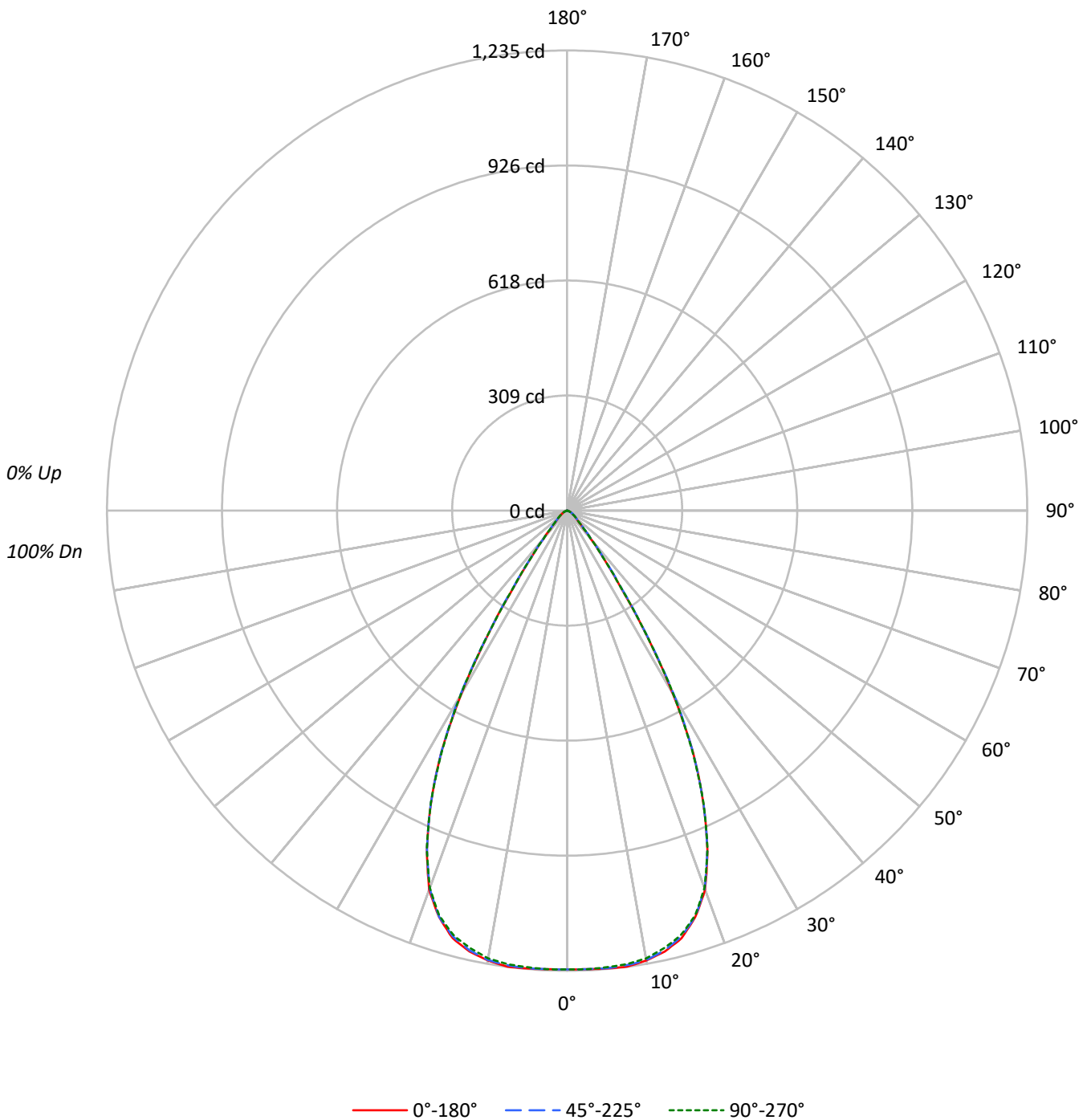
Lumens per Lamp: N/A  
Luminaire Lumens: 1084.0 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.86  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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	100				100
1	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76				76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71				71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67				67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63				63
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	68	63	60	59				59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56				56
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53				53

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

	0°	45°	90°
0°	119283	119283	119283
5°	119952	119904	119631
10°	120572	120464	120031
15°	119138	118697	118305
20°	111618	111216	111051
25°	92417	92535	92481
30°	63549	64914	64108
35°	28892	29743	29211
40°	12596	12874	12381
45°	6247	6932	6549
50°	4521	4778	4612
55°	3564	3766	3564
60°	2809	3023	2906
65°	2292	2178	2292
70°	1586	1586	1586
75°	823	823	823
80°	0	335	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.4	10.8
10°-20°	330.2	30.5
20°-30°	388.1	35.8
30°-40°	174.2	16.1
40°-50°	42.0	3.9
50°-60°	19.7	1.8
60°-70°	9.8	0.9
70°-80°	2.6	0.2
80°-90°	0.0	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°	835.7	77.1
0°-40°	1009.9	93.2
0°-60°	1071.5	98.9
0°-90°	1084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1234	1234	1233	1232	1230	118
15°	1188	1184	1184	1182	1180	331
25°	865	867	866	864	865	387
35°	244	251	252	246	247	171
45°	46	50	51	50	48	40
55°	21	22	22	22	21	19
65°	10	10	10	10	10	10
75°	2	2	2	2	2	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1231.3	1231.3	1231.3	1231.3	1231.3
2.5°	1231.9	1231.9	1231.9	1234.1	1231.9
5°	1233.5	1233.5	1233.0	1232.4	1230.2
7.5°	1234.6	1233.5	1230.7	1229.6	1227.4
10°	1225.7	1224.6	1224.6	1223.0	1220.2
12.5°	1211.8	1209.0	1209.0	1208.5	1202.9
15°	1187.9	1183.5	1183.5	1181.8	1179.6
17.5°	1143.9	1146.7	1142.8	1144.5	1140.1
20°	1082.7	1082.7	1078.8	1080.0	1077.2
22.5°	983.7	987.0	983.1	984.3	984.3
25°	864.6	867.4	865.7	864.1	865.2
27.5°	732.8	734.4	732.2	733.9	728.3
30°	568.1	580.9	580.3	582.0	573.1
32.5°	397.3	407.3	400.6	402.8	398.4
35°	244.3	250.9	251.5	245.9	247.0
37.5°	153.0	155.8	159.7	156.3	158.0
40°	99.6	99.0	101.8	101.3	97.9
42.5°	66.2	67.9	69.5	69.0	67.3
45°	45.6	49.5	50.6	49.5	47.8
47.5°	35.6	37.3	38.9	37.8	36.2
50°	30.0	30.6	31.7	30.6	30.6
52.5°	25.6	25.6	26.7	26.2	26.2
55°	21.1	21.7	22.3	21.7	21.1
57.5°	17.2	17.2	18.9	17.8	17.2
60°	14.5	14.5	15.6	14.5	15.0
62.5°	12.2	12.2	12.2	12.2	12.2
65°	10.0	10.0	9.5	10.0	10.0
67.5°	7.2	7.2	7.2	7.8	7.8
70°	5.6	5.6	5.6	5.6	5.6
72.5°	3.9	3.9	3.9	3.9	3.9
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.6	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)