

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: P328641

Luminaire Tested: **L815SQ10FL940MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SQ10FL940MB  
Description: Square Track 13x1, 1000lm, 37°, 4000K, black finish  
Light Source: (13) 4000K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

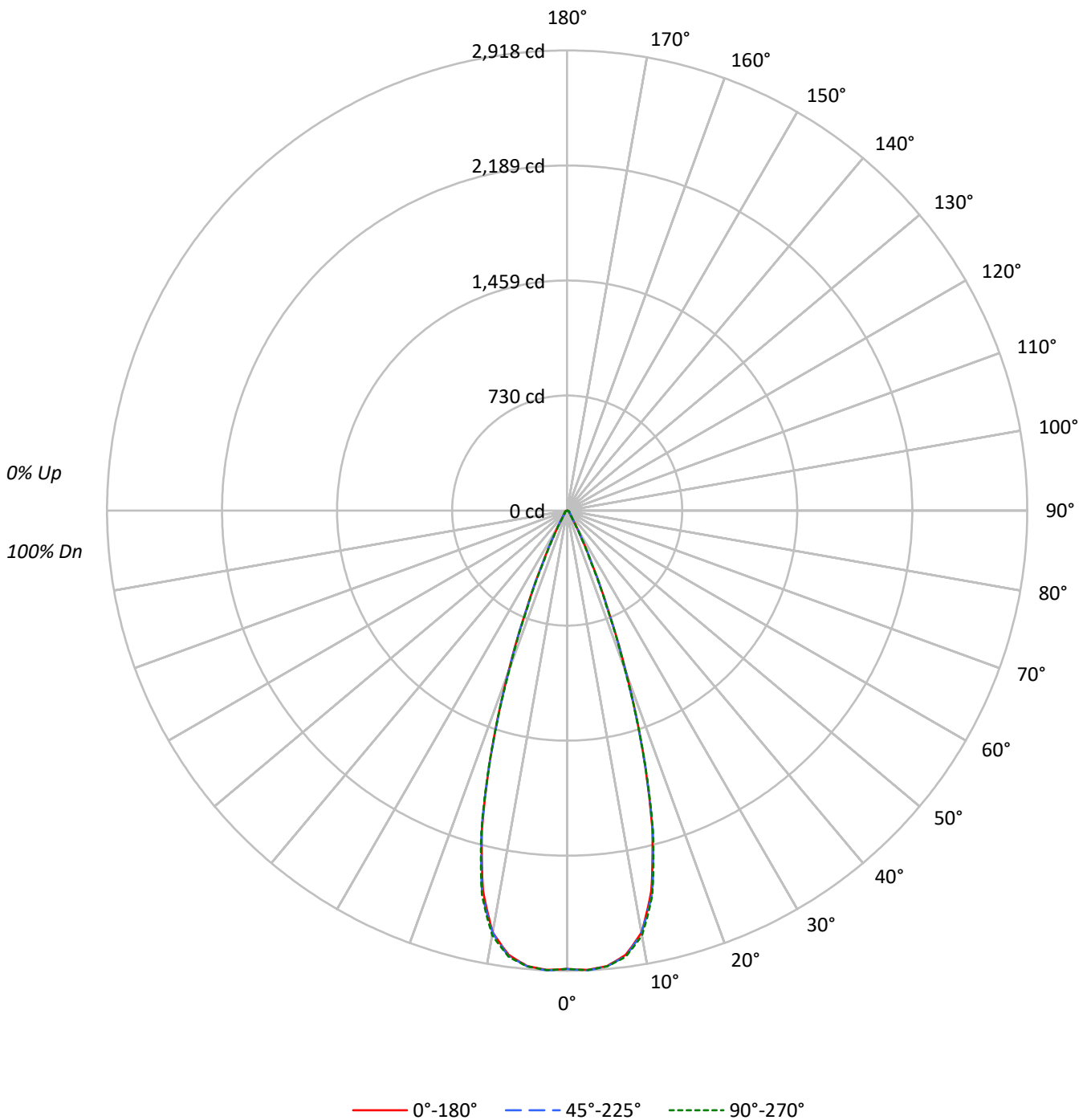
Lumens per Lamp: N/A  
Luminaire Lumens: 1096.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.55  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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				
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96				
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91				
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88				
4	102	96	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84				
5	99	92	88	84	97	92	87	84	90	86	83	88	85	83	87	84	82	81				
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78				
7	92	85	81	77	91	85	80	77	84	80	77	83	79	77	82	78	76	75				
8	90	82	78	75	89	82	77	74	81	77	74	80	76	74	79	76	74	72				
9	87	79	75	72	86	79	75	72	78	74	72	77	74	71	77	73	71	70				
10	84	77	72	69	83	76	72	69	76	72	69	75	72	69	74	71	69	68				

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

	0°	45°	90°
0°	281617	281617	281617
5°	281992	282099	282206
10°	267291	267448	269042
15°	209030	210424	210816
20°	112021	111742	109732
25°	39036	39090	36054
30°	12517	12763	11018
35°	5665	5594	5133
40°	3946	3870	3592
45°	3055	3055	2740
50°	2939	2939	2773
55°	2922	3108	2821
60°	2809	2906	2693
65°	2544	2292	2430
70°	1898	1728	1898
75°	1048	1048	1048
80°	0	335	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.6	24.8
10°-20°	548.4	50.0
20°-30°	196.1	17.9
30°-40°	33.7	3.1
40°-50°	17.3	1.6
50°-60°	15.3	1.4
60°-70°	10.4	0.9
70°-80°	3.1	0.3
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°	1016.1	92.7
0°-40°	1049.8	95.8
0°-60°	1082.4	98.8
0°-90°	1096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2907	2907	2907	2907	2907	
5°	2900	2902	2901	2906	2902	271
15°	2084	2101	2098	2103	2102	546
25°	365	374	366	356	337	198
35°	48	48	47	44	43	34
45°	22	22	22	21	20	18
55°	17	18	18	17	17	15
65°	11	11	10	11	11	11
75°	3	3	3	3	3	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°	2907.0	2907.0	2907.0	2907.0	2907.0
2.5°	2915.3	2917.0	2918.1	2922.0	2916.5
5°	2899.8	2902.5	2900.9	2906.4	2902.0
7.5°	2841.3	2845.8	2849.7	2855.2	2852.4
10°	2717.2	2715.5	2718.8	2732.8	2735.0
12.5°	2467.8	2475.0	2491.2	2487.8	2498.4
15°	2084.2	2100.9	2098.1	2103.1	2102.0
17.5°	1590.4	1606.6	1587.1	1600.5	1597.1
20°	1086.6	1086.1	1083.9	1084.4	1064.4
22.5°	667.5	668.0	655.2	637.4	646.9
25°	365.2	374.1	365.7	355.7	337.3
27.5°	189.8	198.7	201.0	188.7	185.4
30°	111.9	111.3	114.1	106.3	98.5
32.5°	67.9	68.5	71.3	65.1	62.9
35°	47.9	47.9	47.3	44.5	43.4
37.5°	37.9	38.4	37.3	35.6	34.5
40°	31.2	30.6	30.6	28.4	28.4
42.5°	25.6	25.1	25.1	23.4	22.8
45°	22.3	21.7	22.3	20.6	20.0
47.5°	20.6	20.0	20.6	18.9	18.9
50°	19.5	19.5	19.5	18.4	18.4
52.5°	18.9	18.4	18.9	17.8	17.8
55°	17.3	17.8	18.4	17.3	16.7
57.5°	15.6	15.6	16.7	15.6	15.0
60°	14.5	13.9	15.0	13.9	13.9
62.5°	13.4	12.8	12.8	12.2	12.8
65°	11.1	11.1	10.0	10.6	10.6
67.5°	8.4	8.9	7.8	8.4	8.4
70°	6.7	6.7	6.1	6.7	6.7
72.5°	4.5	5.0	4.5	5.0	4.5
75°	2.8	2.8	2.8	2.8	2.8
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)