

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: P328638

Luminaire Tested: **L815SQ10FL927MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328638  
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: L815SQ10FL927MB  
Description: Square Track 13x1, 1000lm, 37°, 2700K, black finish  
Light Source: (13) 2700K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

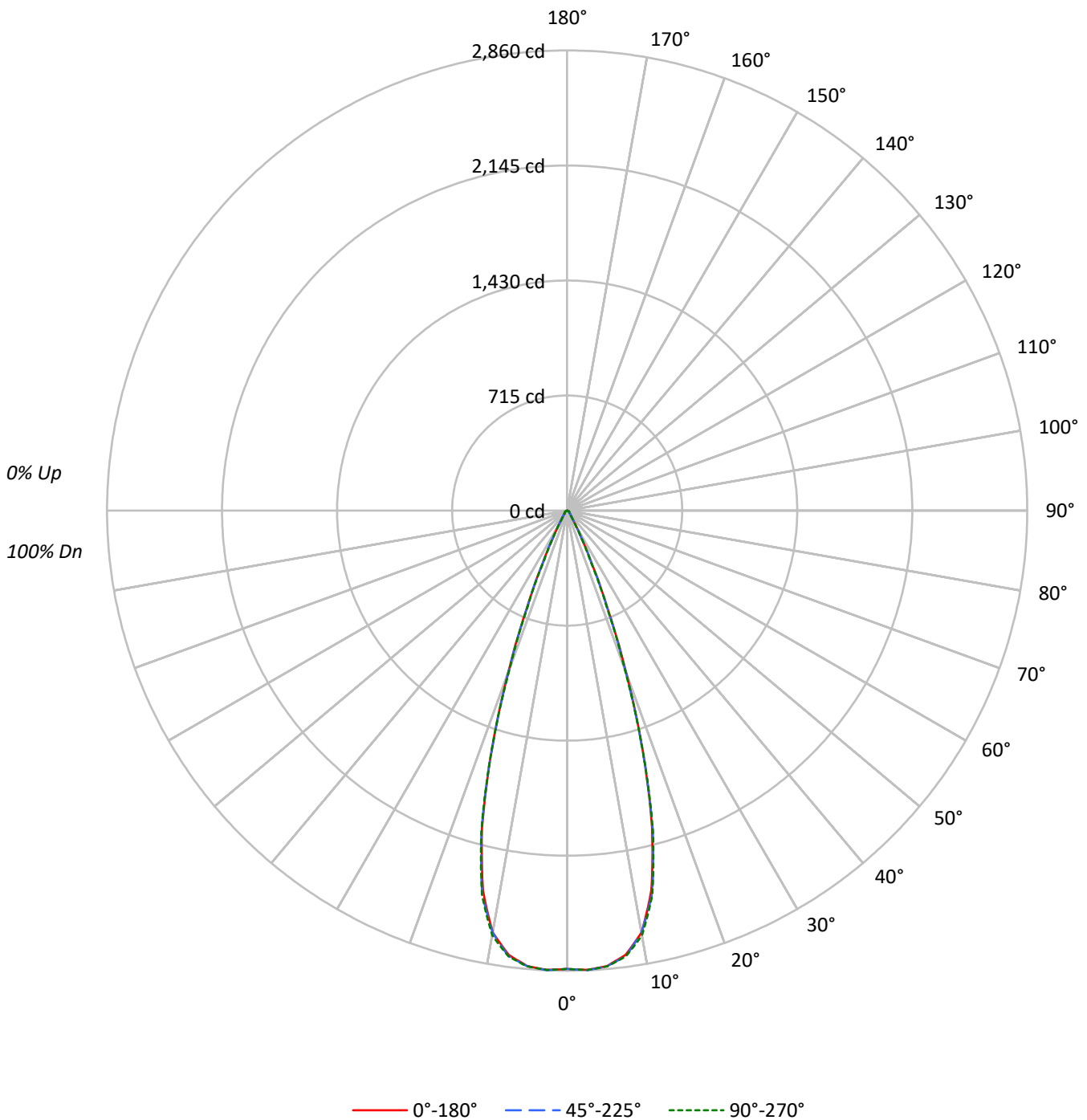
Lumens per Lamp: N/A  
Luminaire Lumens: 1074.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.55  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	275959	275959	275959
5°	276333	276430	276537
10°	261920	262087	263641
15°	204838	206202	206583
20°	109773	109495	107526
25°	38256	38309	35338
30°	12260	12506	10806
35°	5547	5487	5026
40°	3857	3794	3516
45°	2987	2987	2685
50°	2879	2879	2713
55°	2854	3040	2770
60°	2751	2848	2635
65°	2499	2246	2384
70°	1841	1699	1841
75°	1011	1011	1011
80°	0	279	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.2	24.8
10°-20°	537.4	50.0
20°-30°	192.1	17.9
30°-40°	33.0	3.1
40°-50°	17.0	1.6
50°-60°	15.0	1.4
60°-70°	10.2	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°	995.7	92.7
0°-40°	1028.7	95.8
0°-60°	1060.7	98.8
0°-90°	1074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2849	2849	2849	2849	2849	
5°	2842	2844	2843	2848	2844	266
15°	2042	2059	2056	2061	2060	535
25°	358	367	358	349	331	194
35°	47	47	46	44	42	34
45°	22	21	22	20	20	18
55°	17	18	18	17	16	15
65°	11	11	10	10	10	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°	2848.6	2848.6	2848.6	2848.6	2848.6
2.5°	2856.8	2858.5	2859.6	2863.4	2857.9
5°	2841.6	2844.3	2842.6	2848.1	2843.7
7.5°	2784.3	2788.6	2792.5	2797.9	2795.2
10°	2662.6	2661.0	2664.3	2677.9	2680.1
12.5°	2418.2	2425.3	2441.2	2437.9	2448.2
15°	2042.4	2058.8	2056.0	2060.9	2059.8
17.5°	1558.5	1574.3	1555.2	1568.3	1565.1
20°	1064.8	1064.3	1062.1	1062.7	1043.0
22.5°	654.1	654.6	642.1	624.6	633.9
25°	357.9	366.6	358.4	348.6	330.6
27.5°	186.0	194.7	196.9	184.9	181.7
30°	109.6	109.1	111.8	104.2	96.6
32.5°	66.6	67.1	69.8	63.8	61.6
35°	46.9	46.9	46.4	43.6	42.5
37.5°	37.1	37.6	36.5	34.9	33.8
40°	30.5	30.0	30.0	27.8	27.8
42.5°	25.1	24.5	24.5	22.9	22.4
45°	21.8	21.3	21.8	20.2	19.6
47.5°	20.2	19.6	20.2	18.5	18.5
50°	19.1	19.1	19.1	18.0	18.0
52.5°	18.5	18.0	18.5	17.5	17.5
55°	16.9	17.5	18.0	16.9	16.4
57.5°	15.3	15.3	16.4	15.3	14.7
60°	14.2	13.6	14.7	13.6	13.6
62.5°	13.1	12.5	12.5	12.0	12.5
65°	10.9	10.9	9.8	10.4	10.4
67.5°	8.2	8.7	7.6	8.2	8.2
70°	6.5	6.5	6.0	6.5	6.5
72.5°	4.4	4.9	4.4	4.9	4.4
75°	2.7	2.7	2.7	2.7	2.7
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.5	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)