

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: P328646

Luminaire Tested: **L815SQ10SP927MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-22)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SQ10SP927MB  
Description: Square Track 13x1, 1000lm, 15°, 2700K, black finish  
Light Source: (13) 2700K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

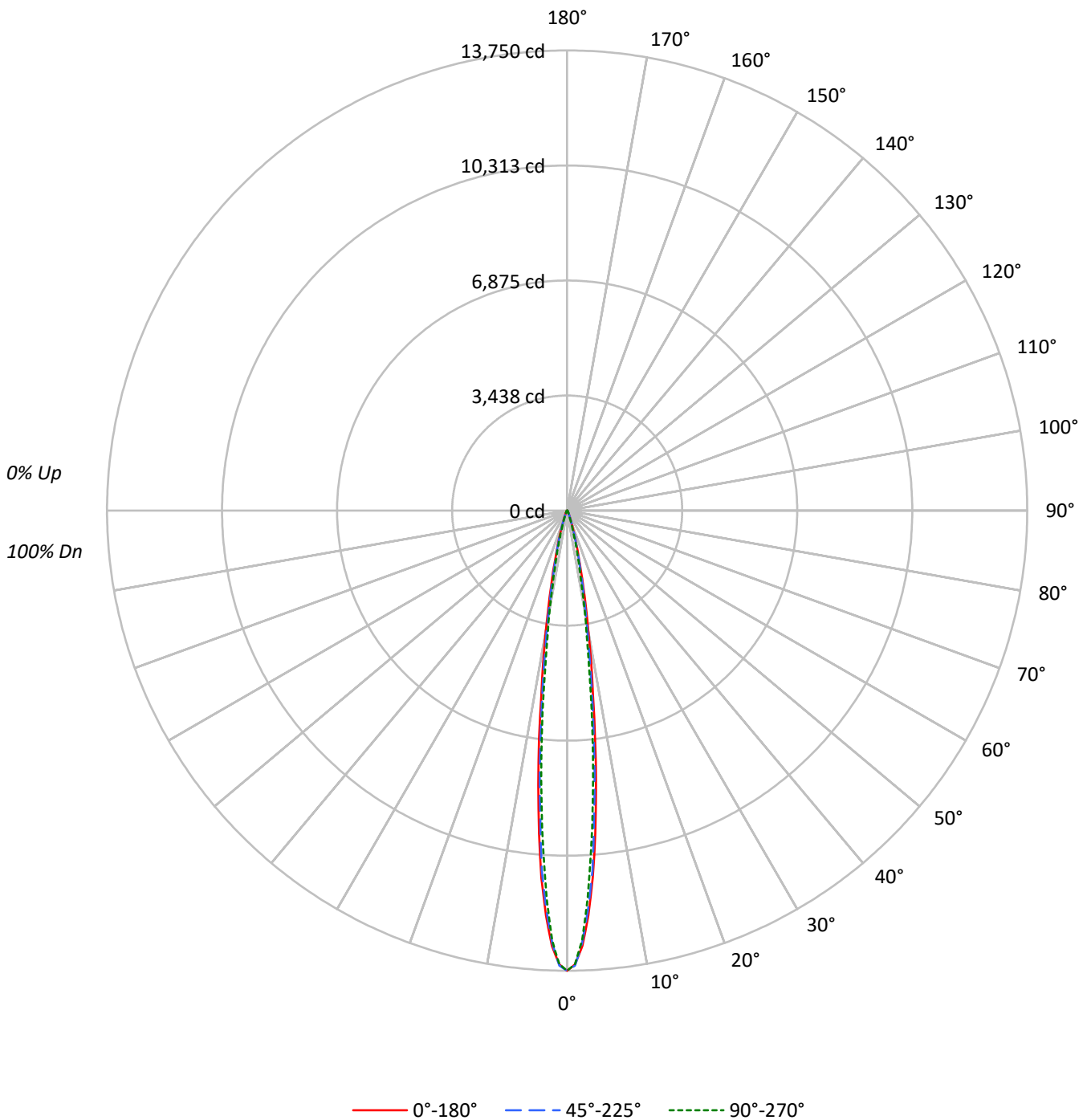
Lumens per Lamp: N/A  
Luminaire Lumens: 1127.0 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.22 / 0.24  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	114	112	110	113	111	110	109	107	106	105	104	103	102	100	100	99	98
2	112	109	106	104	110	107	105	103	104	102	101	101	100	99	99	98	97	95
3	109	105	102	99	108	104	101	99	101	99	97	99	97	96	97	96	94	93
4	107	102	98	96	105	101	98	95	99	96	94	97	95	93	96	94	92	91
5	104	99	96	93	103	98	95	93	97	94	92	95	93	91	94	92	90	89
6	102	97	93	91	101	96	93	90	95	92	90	94	91	89	93	90	89	88
7	100	95	91	89	99	94	91	88	93	90	88	92	90	88	91	89	87	86
8	98	93	89	87	97	92	89	87	91	89	86	91	88	86	90	88	86	85
9	96	91	88	85	96	91	87	85	90	87	85	89	87	85	89	86	85	84
10	95	89	86	84	94	89	86	84	89	86	84	88	85	84	87	85	83	83

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

	0°	45°	90°
0°	1332027	1332027	1332027
5°	940947	894746	853601
10°	360899	327641	293005
15°	111044	101918	82561
20°	34546	34237	24330
25°	14216	12934	10796
30°	8054	6935	6376
35°	5322	4731	4376
40°	3920	3541	3288
45°	3151	2877	2740
50°	2713	2562	2411
55°	2533	2365	2196
60°	2325	2131	2131
65°	2063	1834	1834
70°	1699	1699	1699
75°	1123	1123	1123
80°	0	558	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	676.7	60.0
10°-20°	320.3	28.4
20°-30°	63.1	5.6
30°-40°	26.2	2.3
40°-50°	16.7	1.5
50°-60°	12.4	1.1
60°-70°	8.6	0.8
70°-80°	3.0	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°	1060.1	94.1
0°-40°	1086.3	96.4
0°-60°	1115.3	99.0
0°-90°	1127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1127.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13750	13750	13750	13750	13750	
5°	9676	9613	9201	9029	8778	712
15°	1107	1098	1016	899	823	356
25°	133	130	121	107	101	70
35°	45	43	40	38	37	29
45°	23	22	21	20	20	18
55°	15	14	14	13	13	13
65°	9	9	8	9	8	9
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°	13749.9	13749.9	13749.9	13749.9	13749.9
1°	13563.8	13626.9	13598.8	13551.8	13551.8
2°	13014.7	13056.7	12910.7	12832.7	12836.7
3°	12117.5	12142.5	11920.5	11811.5	11622.4
4°	11008.3	10979.3	10792.3	10527.2	10227.1
5°	9676.0	9613.0	9200.9	9028.9	8777.8
6°	8250.7	8252.7	7840.6	7541.6	7404.5
7°	6864.4	6752.4	6377.3	6051.3	6004.3
8°	5567.2	5484.1	5236.1	4884.0	4652.0
9°	4594.0	4425.9	4109.9	3814.8	3724.8
10°	3668.8	3503.7	3330.7	3075.6	2978.6
11°	2969.6	2833.6	2639.6	2373.5	2289.5
12°	2305.5	2252.5	2077.4	1899.4	1790.4
13°	1843.4	1779.4	1666.3	1470.3	1429.3
14°	1420.3	1410.3	1317.3	1149.2	1081.2
15°	1107.2	1098.2	1016.2	899.2	823.2
17.5°	597.1	614.1	595.1	479.1	437.1
20°	335.1	343.1	332.1	270.1	236.0
22.5°	200.0	203.0	191.0	162.0	151.0
25°	133.0	130.0	121.0	107.0	101.0
27.5°	97.0	94.0	84.0	76.0	74.0
30°	72.0	67.0	62.0	58.0	57.0
32.5°	56.0	53.0	49.0	46.0	46.0
35°	45.0	43.0	40.0	38.0	37.0
37.5°	38.0	36.0	33.0	32.0	31.0
40°	31.0	30.0	28.0	27.0	26.0
42.5°	27.0	25.0	24.0	23.0	23.0
45°	23.0	22.0	21.0	20.0	20.0
47.5°	20.0	19.0	19.0	18.0	18.0
50°	18.0	17.0	17.0	16.0	16.0
52.5°	16.0	16.0	15.0	15.0	14.0
55°	15.0	14.0	14.0	13.0	13.0
57.5°	13.0	13.0	12.0	12.0	12.0
60°	12.0	11.0	11.0	11.0	11.0
62.5°	11.0	10.0	10.0	10.0	10.0
65°	9.0	9.0	8.0	9.0	8.0
67.5°	8.0	8.0	7.0	7.0	7.0
70°	6.0	6.0	6.0	6.0	6.0
72.5°	4.0	4.0	4.0	4.0	4.0
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.0	1.0	2.0	1.0	1.0
80°	0.0	0.0	1.0	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



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)