

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: P328708

Luminaire Tested: **L815SQ40SP935MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-23)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SQ40SP935MB  
Description: Square Track 26x1, 4000lm, 15°, 3500K, black finish  
Light Source: (26) 3500K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

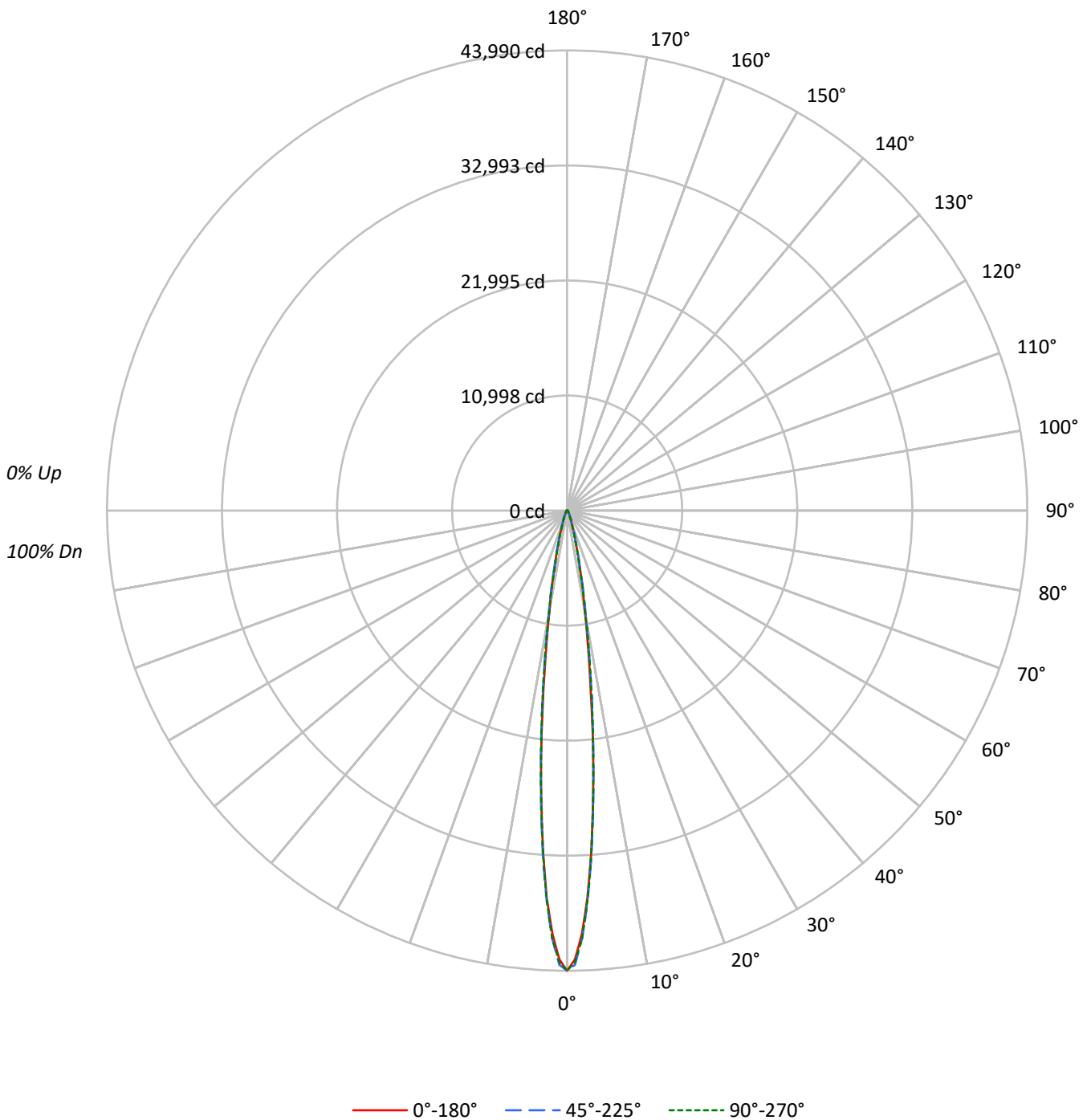
Lumens per Lamp: N/A  
Luminaire Lumens: 3877.0 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.24  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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	100	100	100	100	100		
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97	97	96	95	94	93	92		
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93	95	93	92	91	90	89		
3	108	103	100	97	106	102	99	96	99	97	94	97	95	93	95	93	92	90	95	93	92	91	89	88		
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	93	91	89	88	87	86		
5	102	96	92	89	101	95	92	89	94	91	88	92	90	87	91	89	87	86	91	89	87	86	85	84		
6	99	93	89	86	98	93	89	86	91	88	86	90	87	85	89	87	85	84	89	87	85	84	83	82		
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82	87	85	83	82	81	80		
8	95	89	85	82	94	88	85	82	87	84	82	86	84	81	86	83	81	80	86	83	81	80	79	79		
9	93	87	83	80	92	86	83	80	86	82	80	85	82	80	84	82	80	79	84	82	80	79	78	77		
10	91	85	81	79	90	85	81	79	84	81	79	83	80	78	83	80	78	77	83	80	78	77	76	75		

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

	0°	45°	90°
0°	4261560	4261560	4261560
5°	2743674	2772245	2750715
10°	957975	1006039	986571
15°	312232	335249	298632
20°	122722	143649	120938
25°	61825	71638	63674
30°	38223	42675	39823
35°	28348	30157	28596
40°	22839	23218	20892
45°	17043	17742	16632
50°	15523	16608	16608
55°	15674	18427	17751
60°	15209	13233	13834
65°	10751	11461	10522
70°	7789	9829	7789
75°	3818	6101	4566
80°	8536	5133	1729
85°	0	3446	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2094.3	54.0
10°-20°	1043.7	26.9
20°-30°	312.6	8.1
30°-40°	156.0	4.0
40°-50°	106.2	2.7
50°-60°	86.1	2.2
60°-70°	53.2	1.4
70°-80°	21.4	0.6
80°-90°	3.5	0.1
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°	3450.6	89.0
0°-40°	3606.6	93.0
0°-60°	3798.9	98.0
0°-90°	3877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3877.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	43990	43990	43990	43990	43990	
5°	28214	28483	28508	28904	28286	2058
15°	3113	3176	3343	3146	2978	1013
25°	578	620	670	629	596	290
35°	240	244	255	250	242	151
45°	124	130	130	128	121	104
55°	93	111	109	107	105	83
65°	47	52	50	47	46	51
75°	10	9	16	17	12	19
85°	0	0	3	1	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	43990.1	43990.1	43990.1	43990.1	43990.1
1°	42900.7	43141.5	43423.0	43353.6	43167.0
2°	40455.6	40933.0	40916.7	41121.7	40897.3
3°	37086.4	37357.7	37382.2	37477.1	37232.2
4°	32810.3	32986.7	33148.9	33314.2	32964.3
5°	28213.9	28483.2	28507.7	28904.5	28286.3
6°	23862.3	23854.1	24050.0	24220.3	23931.7
7°	19178.2	19764.7	19938.1	19831.0	19809.6
8°	15458.0	15882.4	16223.1	16023.1	16090.4
9°	12386.6	12592.7	12726.3	13072.1	13119.0
10°	9738.5	10020.1	10227.1	10303.6	10029.2
12.5°	5546.1	5560.4	5815.4	5530.8	5305.3
15°	3113.2	3176.5	3342.7	3145.9	2977.6
17.5°	1824.9	1948.3	2118.7	1933.0	1776.9
20°	1190.4	1260.8	1393.4	1256.7	1173.1
22.5°	795.6	874.2	953.8	879.3	822.2
25°	578.4	620.2	670.2	629.4	595.7
27.5°	453.9	469.2	508.0	481.5	461.1
30°	341.7	358.0	381.5	363.1	356.0
32.5°	278.5	287.7	312.1	293.8	282.6
35°	239.7	243.8	255.0	249.9	241.8
37.5°	194.8	193.8	208.1	191.8	197.9
40°	180.6	173.4	183.6	175.5	165.2
42.5°	163.2	167.3	165.2	166.3	165.2
45°	124.4	129.5	129.5	127.5	121.4
47.5°	110.2	114.2	117.3	121.4	124.4
50°	103.0	103.0	110.2	111.2	110.2
52.5°	97.9	103.0	103.0	102.0	100.0
55°	92.8	111.2	109.1	107.1	105.1
57.5°	87.7	85.7	83.6	89.8	85.7
60°	78.5	77.5	68.3	72.4	71.4
62.5°	63.2	59.2	70.4	65.3	80.6
65°	46.9	52.0	50.0	46.9	45.9
67.5°	41.8	52.0	47.9	44.9	51.0
70°	27.5	34.7	34.7	26.5	27.5
72.5°	33.7	34.7	35.7	35.7	31.6
75°	10.2	9.2	16.3	17.3	12.2
77.5°	7.1	8.2	13.3	13.3	17.3
80°	15.3	14.3	9.2	15.3	3.1
82.5°	0.0	1.0	0.0	1.0	0.0
85°	0.0	0.0	3.1	1.0	0.0
87.5°	2.0	8.2	3.1	8.2	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)