

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: P328706

Luminaire Tested: **L815SQ40SP927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328706
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: L815SQ40SP927MB
Description: Square Track 26x1, 4000lm, 15°, 2700K, black finish
Light Source: (26) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

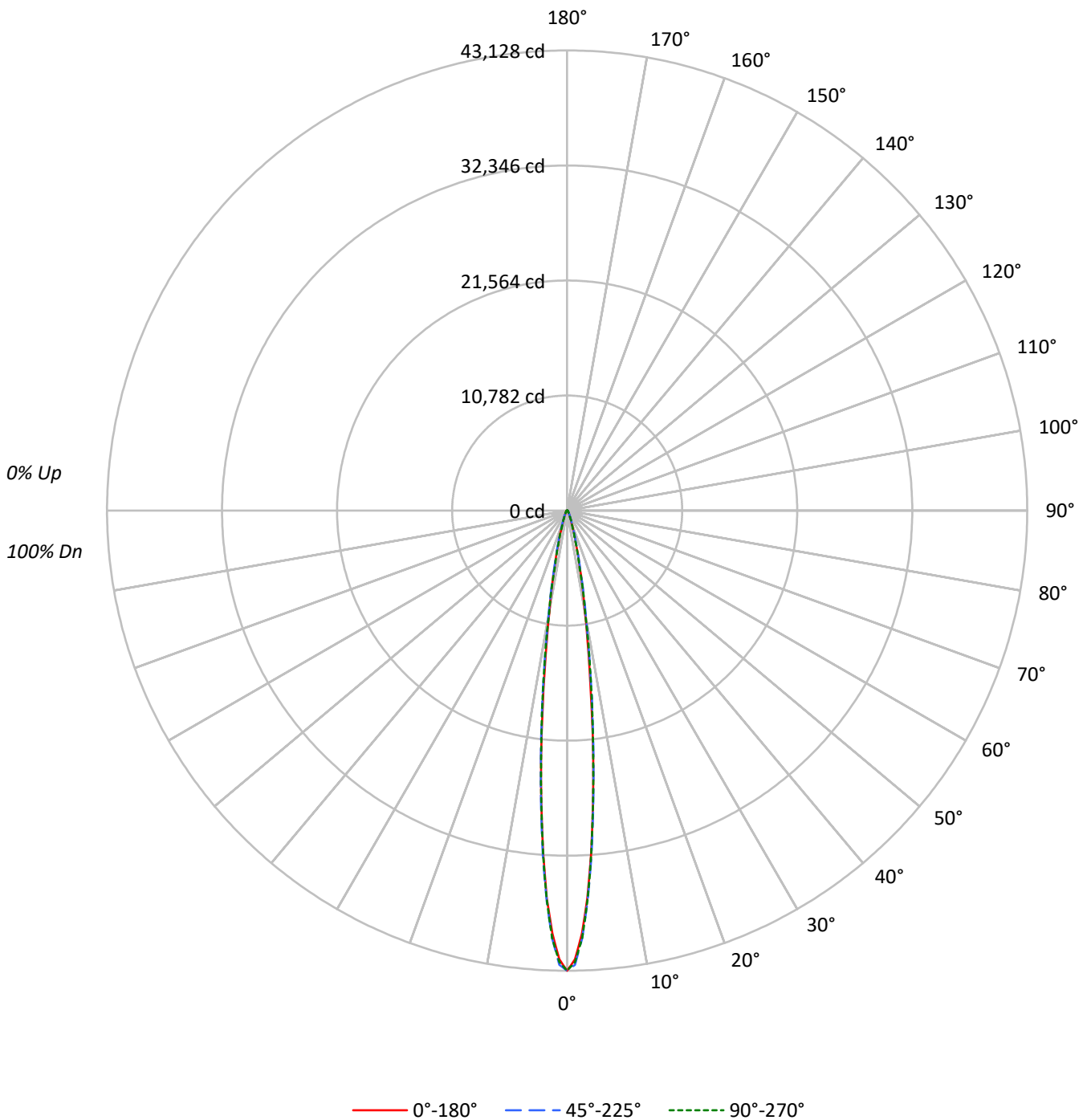
Lumens per Lamp: N/A
Luminaire Lumens: 3801.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.24
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	93	93	97		
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93	95	93	92	90	90	93		
3	108	103	100	97	106	102	99	96	99	97	94	97	95	93	95	93	92	90	95	93	92	90	90	93		
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	93	91	89	88	88	93		
5	102	96	92	89	101	95	92	89	94	91	88	92	90	87	91	89	87	86	91	89	87	86	86	91		
6	99	93	89	86	98	93	89	86	91	88	86	90	87	85	89	87	85	84	89	87	85	84	84	89		
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82	87	85	83	82	82	87		
8	95	89	85	82	94	88	85	82	87	84	82	86	84	81	86	83	81	80	86	83	81	80	80	86		
9	93	87	83	80	92	86	83	80	86	82	80	85	82	80	84	82	80	79	84	82	80	79	79	84		
10	91	85	81	79	90	85	81	79	84	81	79	83	80	78	83	80	78	77	83	80	78	77	77	83		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4178024	4178024	4178024
5°	2689888	2717894	2696792
10°	939196	986325	967232
15°	306114	328680	292775
20°	120319	140835	118567
25°	60607	70227	62424
30°	37474	41836	39040
35°	27792	29566	28028
40°	22384	22763	20487
45°	16714	17399	16303
50°	15222	16277	16277
55°	15370	18072	17396
60°	14919	12981	13563
65°	10544	11232	10315
70°	7648	9630	7648
75°	3743	5989	4492
80°	8368	5021	1674
85°	0	3335	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2053.2	54.0
10°-20°	1023.3	26.9
20°-30°	306.4	8.1
30°-40°	152.9	4.0
40°-50°	104.1	2.7
50°-60°	84.5	2.2
60°-70°	52.2	1.4
70°-80°	21.0	0.6
80°-90°	3.4	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°	3382.9	89.0
0°-40°	3535.9	93.0
0°-60°	3724.4	98.0
0°-90°	3801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	43128	43128	43128	43128	43128	
5°	27661	27925	27949	28338	27732	2017
15°	3052	3114	3277	3084	2919	993
25°	567	608	657	617	584	284
35°	235	239	250	245	237	148
45°	122	127	127	125	119	101
55°	91	109	107	105	103	81
65°	46	51	49	46	45	50
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°	43127.8	43127.8	43127.8	43127.8	43127.8
1°	42059.7	42295.8	42571.8	42503.8	42320.8
2°	39662.6	40130.6	40114.6	40315.6	40095.6
3°	36359.4	36625.4	36649.4	36742.4	36502.4
4°	32167.1	32340.1	32499.1	32661.1	32318.1
5°	27660.8	27924.8	27948.8	28337.8	27731.8
6°	23394.5	23386.5	23578.5	23745.5	23462.5
7°	18802.2	19377.3	19547.3	19442.3	19421.3
8°	15155.0	15571.0	15905.0	15709.0	15775.0
9°	12143.8	12345.8	12476.8	12815.8	12861.8
10°	9547.6	9823.6	10026.7	10101.7	9832.6
12.5°	5437.4	5451.4	5701.4	5422.4	5201.3
15°	3052.2	3114.2	3277.2	3084.2	2919.2
17.5°	1789.1	1910.1	2077.1	1895.1	1742.1
20°	1167.1	1236.1	1366.1	1232.1	1150.1
22.5°	780.1	857.1	935.1	862.1	806.1
25°	567.0	608.0	657.0	617.0	584.0
27.5°	445.0	460.0	498.0	472.0	452.0
30°	335.0	351.0	374.0	356.0	349.0
32.5°	273.0	282.0	306.0	288.0	277.0
35°	235.0	239.0	250.0	245.0	237.0
37.5°	191.0	190.0	204.0	188.0	194.0
40°	177.0	170.0	180.0	172.0	162.0
42.5°	160.0	164.0	162.0	163.0	162.0
45°	122.0	127.0	127.0	125.0	119.0
47.5°	108.0	112.0	115.0	119.0	122.0
50°	101.0	101.0	108.0	109.0	108.0
52.5°	96.0	101.0	101.0	100.0	98.0
55°	91.0	109.0	107.0	105.0	103.0
57.5°	86.0	84.0	82.0	88.0	84.0
60°	77.0	76.0	67.0	71.0	70.0
62.5°	62.0	58.0	69.0	64.0	79.0
65°	46.0	51.0	49.0	46.0	45.0
67.5°	41.0	51.0	47.0	44.0	50.0
70°	27.0	34.0	34.0	26.0	27.0
72.5°	33.0	34.0	35.0	35.0	31.0
75°	10.0	9.0	16.0	17.0	12.0
77.5°	7.0	8.0	13.0	13.0	17.0
80°	15.0	14.0	9.0	15.0	3.0
82.5°	0.0	1.0	0.0	1.0	0.0
85°	0.0	0.0	3.0	1.0	0.0
87.5°	2.0	8.0	3.0	8.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)