

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: P328714

Luminaire Tested: **L815SQ40WW927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SQ40WW927MB
Description: Square Track 26x1, 4000lm, WW, 2700K, black finish
Light Source: (26) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3240.0 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.79 / 0.76
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

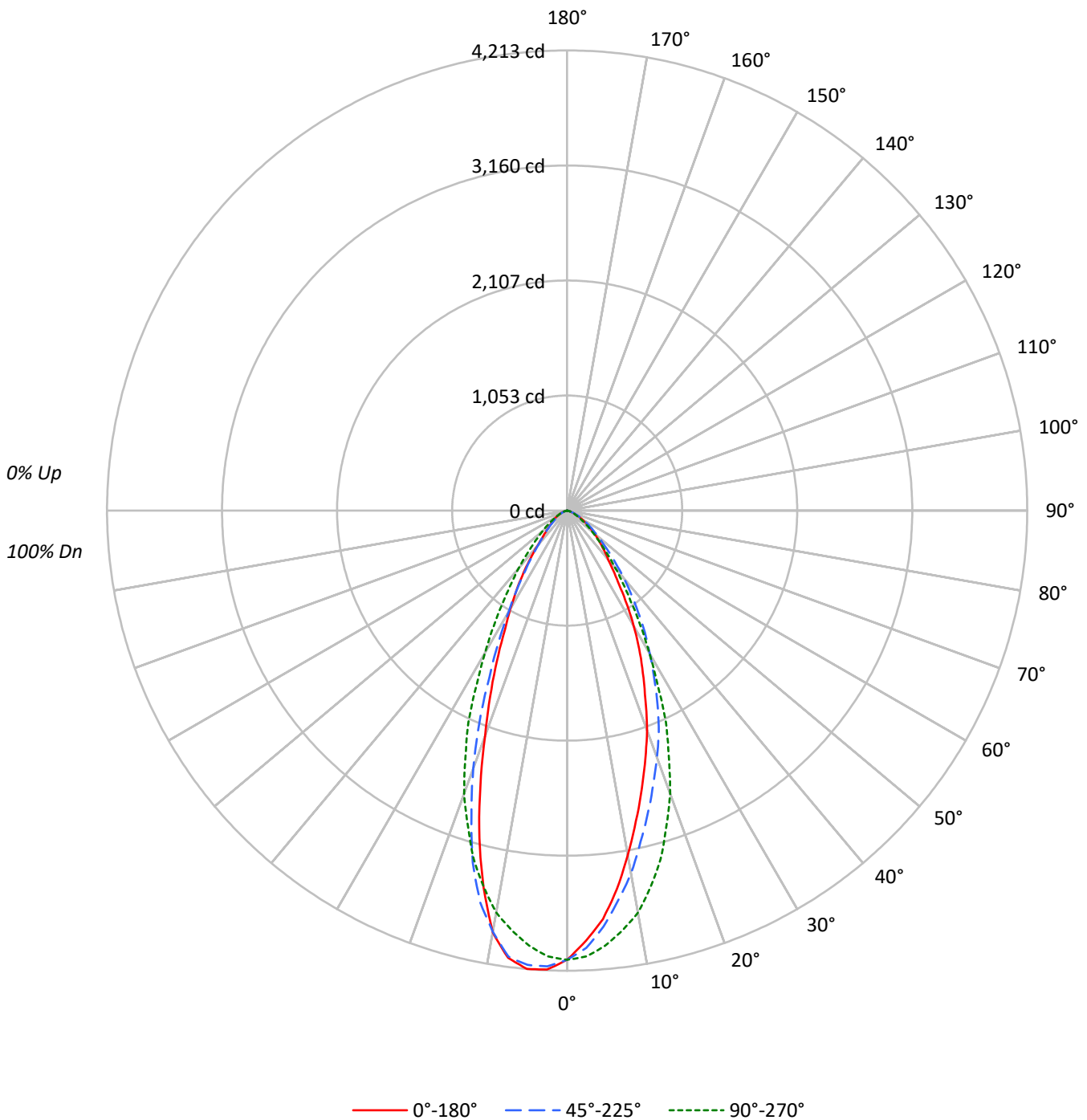
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	90	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82	87	83	81	85	82	79	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	80	76	73	71
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50
10	70	59	53	49	68	59	53	49	58	53	49	57	52	49	57	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	398420	398420	398420
5°	365030	388855	409676
10°	314548	367677	385777
15°	264623	331428	311469
20°	220556	284381	226536
25°	175332	228681	162505
30°	136270	168050	116359
35°	98064	120297	81968
40°	73993	87018	53885
45°	59747	61391	38100
50°	47791	44475	29389
55°	38340	32428	25335
60°	29450	23638	21313
65°	19484	17650	16504
70°	13313	12463	13313
75°	7486	7486	8609
80°	1674	1116	1116
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.6	11.4
10°-20°	853.5	26.3
20°-30°	844.9	26.1
30°-40°	567.4	17.5
40°-50°	321.8	9.9
50°-60°	176.9	5.5
60°-70°	81.8	2.5
70°-80°	22.8	0.7
80°-90°	0.4	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°	2068.9	63.9
0°-40°	2636.3	81.4
0°-60°	3135.0	96.8
0°-90°	3240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3240.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4113	4113	4113	4113	4113	
5°	3754	3824	3999	4176	4213	341
15°	2638	2862	3305	3336	3106	736
25°	1640	1955	2139	1685	1520	754
35°	829	1130	1017	668	693	533
45°	436	546	448	273	278	340
55°	227	257	192	128	150	205
65°	85	102	77	62	72	92
75°	20	21	20	19	23	24
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7
2.5°	3942.7	3965.7	4007.7	4052.7	4085.7	4143.8	4176.8	4203.8	4205.8
5°	3753.7	3773.7	3823.7	3912.7	3998.7	4118.7	4175.8	4213.8	4212.8
7.5°	3494.6	3540.6	3595.7	3745.7	3875.7	4014.7	4119.7	4121.8	4131.8
10°	3197.6	3242.6	3372.6	3535.6	3737.7	3880.7	3914.7	3914.7	3921.7
12.5°	2910.5	2973.5	3104.6	3310.6	3529.6	3683.7	3673.7	3568.6	3532.6
15°	2638.5	2699.5	2862.5	3071.6	3304.6	3386.6	3335.6	3159.6	3105.6
17.5°	2379.4	2433.4	2623.5	2880.5	3024.6	3061.6	2915.5	2706.5	2638.5
20°	2139.4	2196.4	2403.4	2639.5	2758.5	2708.5	2511.5	2255.4	2197.4
22.5°	1870.3	1959.4	2192.4	2379.4	2429.4	2321.4	2099.4	1904.3	1839.3
25°	1640.3	1750.3	1955.4	2131.4	2139.4	1959.4	1685.3	1582.3	1520.3
27.5°	1429.3	1556.3	1724.3	1846.3	1790.3	1601.3	1363.2	1281.2	1234.2
30°	1218.2	1363.2	1511.3	1593.3	1502.3	1290.2	1070.2	1036.2	1040.2
32.5°	1018.2	1179.2	1323.2	1339.2	1251.2	1002.2	850.2	821.1	859.2
35°	829.2	986.2	1130.2	1139.2	1017.2	786.1	668.1	646.1	693.1
37.5°	692.1	808.1	962.2	960.2	837.2	626.1	519.1	522.1	551.1
40°	585.1	671.1	808.1	812.1	688.1	502.1	413.1	402.1	426.1
42.5°	505.1	569.1	663.1	681.1	554.1	415.1	338.1	322.1	337.1
45°	436.1	481.1	546.1	567.1	448.1	328.1	273.0	263.0	278.1
47.5°	377.1	411.1	446.1	470.1	362.1	259.0	221.0	217.0	229.0
50°	317.1	353.1	368.1	386.1	295.1	211.0	180.0	185.0	195.0
52.5°	270.0	301.1	307.1	319.1	241.0	177.0	152.0	158.0	170.0
55°	227.0	250.0	257.0	258.0	192.0	146.0	128.0	138.0	150.0
57.5°	187.0	206.0	211.0	206.0	153.0	119.0	110.0	121.0	132.0
60°	152.0	162.0	174.0	161.0	122.0	98.0	92.0	102.0	110.0
62.5°	122.0	126.0	134.0	125.0	96.0	80.0	77.0	84.0	89.0
65°	85.0	95.0	102.0	92.0	77.0	65.0	62.0	67.0	72.0
67.5°	66.0	66.0	73.0	69.0	61.0	51.0	49.0	54.0	60.0
70°	47.0	48.0	51.0	51.0	44.0	39.0	37.0	43.0	47.0
72.5°	34.0	34.0	33.0	34.0	32.0	29.0	27.0	31.0	33.0
75°	20.0	22.0	21.0	22.0	20.0	19.0	19.0	21.0	23.0
77.5°	11.0	10.0	11.0	11.0	10.0	10.0	10.0	11.0	12.0
80°	3.0	3.0	4.0	3.0	2.0	2.0	3.0	3.0	2.0
82.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)