

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: P328717

Luminaire Tested: **L815SQ40WW940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328717
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: L815SQ40WW940MB
Description: Square Track 26x1, 4000lm, WW, 4000K, black finish
Light Source: (26) 4000K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3305.0 lumens
Efficiency: N/A
Efficacy: 63.6 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

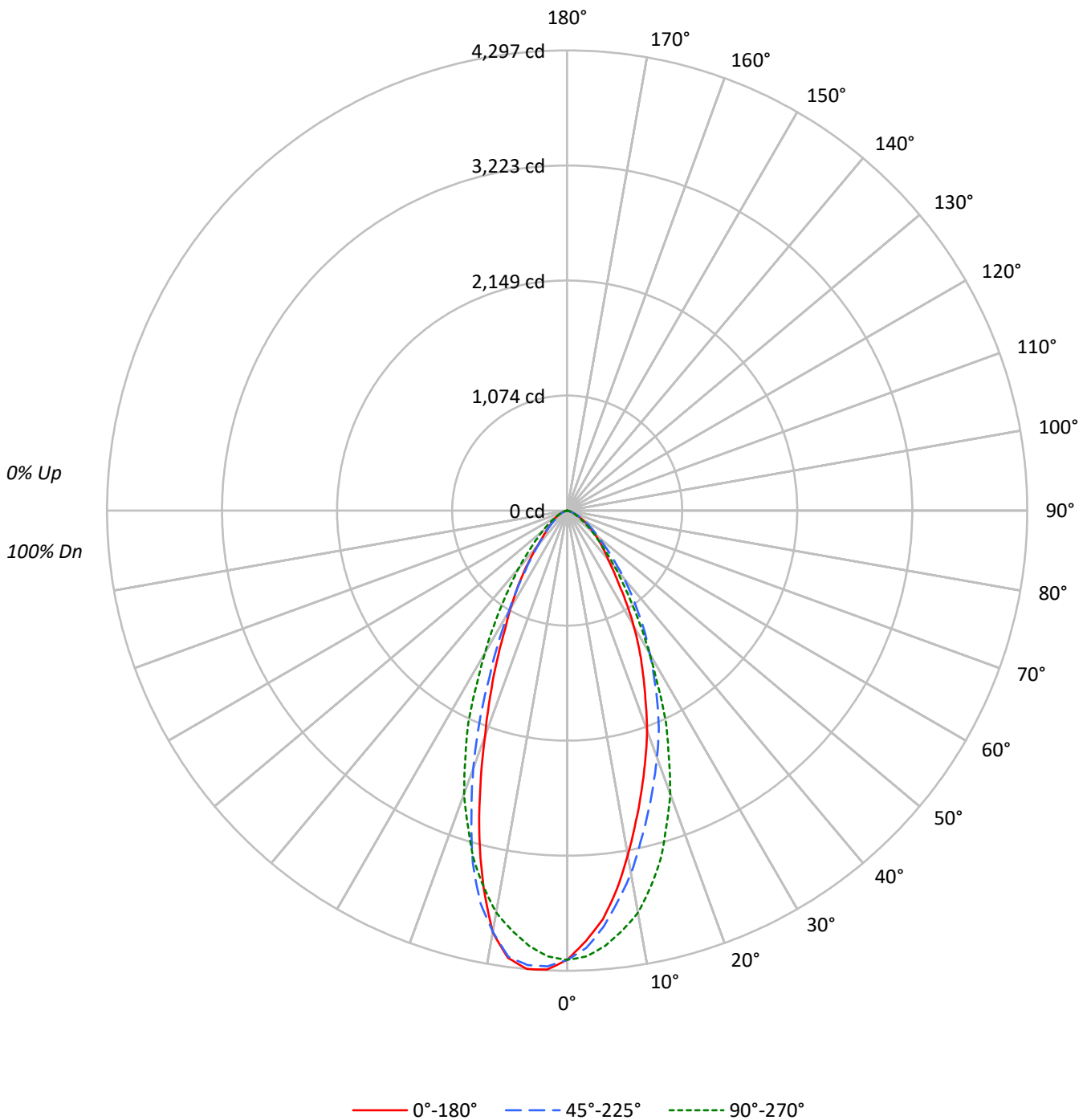
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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°	406421	406421	406421
5°	372353	396655	417893
10°	320853	375055	393519
15°	269928	338077	317718
20°	224979	290082	231082
25°	178849	233267	165765
30°	139011	171417	118697
35°	100027	122710	83612
40°	75472	88764	54960
45°	60939	62624	38854
50°	48740	45364	29977
55°	39117	33087	25841
60°	30051	24122	21739
65°	19874	18017	16848
70°	13596	12718	13596
75°	7636	7636	8796
80°	1729	1116	1116
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.0	11.4
10°-20°	870.6	26.3
20°-30°	861.8	26.1
30°-40°	578.7	17.5
40°-50°	328.2	9.9
50°-60°	180.5	5.5
60°-70°	83.4	2.5
70°-80°	23.3	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°	2110.5	63.9
0°-40°	2689.2	81.4
0°-60°	3197.9	96.8
0°-90°	3305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4195	4195	4195	4195	4195	
5°	3829	3900	4079	4260	4297	348
15°	2691	2920	3371	3402	3168	750
25°	1673	1995	2182	1719	1551	769
35°	846	1153	1038	682	707	543
45°	445	557	457	278	284	347
55°	232	262	196	131	153	209
65°	87	104	79	63	74	94
75°	20	21	20	19	24	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°	4195.3	4195.3	4195.3	4195.3	4195.3	4195.3	4195.3	4195.3	4195.3
2.5°	4021.8	4045.3	4088.1	4134.0	4167.7	4226.9	4260.6	4288.1	4290.1
5°	3829.0	3849.4	3900.4	3991.2	4078.9	4201.4	4259.5	4298.3	4297.3
7.5°	3564.7	3611.7	3667.8	3820.8	3953.5	4095.3	4202.4	4204.4	4214.6
10°	3261.7	3307.6	3440.3	3606.6	3812.7	3958.6	3993.2	3993.2	4000.4
12.5°	2968.9	3033.2	3166.8	3377.0	3600.5	3757.6	3747.4	3640.2	3603.5
15°	2691.4	2753.6	2919.9	3133.2	3370.9	3454.6	3402.5	3223.0	3167.9
17.5°	2427.2	2482.3	2676.1	2938.3	3085.2	3123.0	2974.0	2760.8	2691.4
20°	2182.3	2240.5	2451.7	2692.4	2813.8	2762.8	2561.8	2300.7	2241.5
22.5°	1907.9	1998.7	2236.4	2427.2	2478.2	2368.0	2141.5	1942.6	1876.2
25°	1673.2	1785.4	1994.6	2174.1	2182.3	1998.7	1719.1	1614.0	1550.8
27.5°	1457.9	1587.5	1758.9	1883.4	1826.2	1633.4	1390.6	1306.9	1259.0
30°	1242.7	1390.6	1541.6	1625.3	1532.4	1316.1	1091.7	1057.0	1061.1
32.5°	1038.6	1202.9	1349.8	1366.1	1276.3	1022.3	867.2	837.6	876.4
35°	845.8	1006.0	1152.9	1162.1	1037.6	801.9	681.5	659.1	707.0
37.5°	706.0	824.4	981.5	979.4	853.9	638.7	529.5	532.6	562.2
40°	596.8	684.6	824.4	828.4	701.9	512.2	421.4	410.1	434.6
42.5°	515.2	580.5	676.4	694.8	565.2	423.4	344.8	328.5	343.8
45°	444.8	490.7	557.1	578.5	457.1	334.6	278.5	268.3	283.6
47.5°	384.6	419.3	455.0	479.5	369.3	264.2	225.5	221.4	233.6
50°	323.4	360.1	375.5	393.8	301.0	215.3	183.6	188.7	198.9
52.5°	275.5	307.1	313.2	325.5	245.9	180.6	155.1	161.2	173.4
55°	231.6	255.1	262.2	263.2	195.9	149.0	130.6	140.8	153.0
57.5°	190.8	210.2	215.3	210.2	156.1	121.4	112.2	123.4	134.7
60°	155.1	165.3	177.5	164.3	124.5	100.0	93.9	104.1	112.2
62.5°	124.5	128.6	136.7	127.5	97.9	81.6	78.6	85.7	90.8
65°	86.7	96.9	104.1	93.9	78.6	66.3	63.3	68.4	73.5
67.5°	67.3	67.3	74.5	70.4	62.2	52.0	50.0	55.1	61.2
70°	48.0	49.0	52.0	52.0	44.9	39.8	37.7	43.9	48.0
72.5°	34.7	34.7	33.7	34.7	32.6	29.6	27.5	31.6	33.7
75°	20.4	22.4	21.4	22.4	20.4	19.4	19.4	21.4	23.5
77.5°	11.2	10.2	11.2	11.2	10.2	10.2	10.2	11.2	12.2
80°	3.1	3.1	4.1	3.1	2.0	2.0	3.1	3.1	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)