

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: P328694

Luminaire Tested: **L815SQ30WW927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328694
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: L815SQ30WW927MB
Description: Square Track 26x1, 3000lm, WW, 2700K, black finish
Light Source: (26) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2339.0 lumens
Efficiency: N/A
Efficacy: 68.8 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

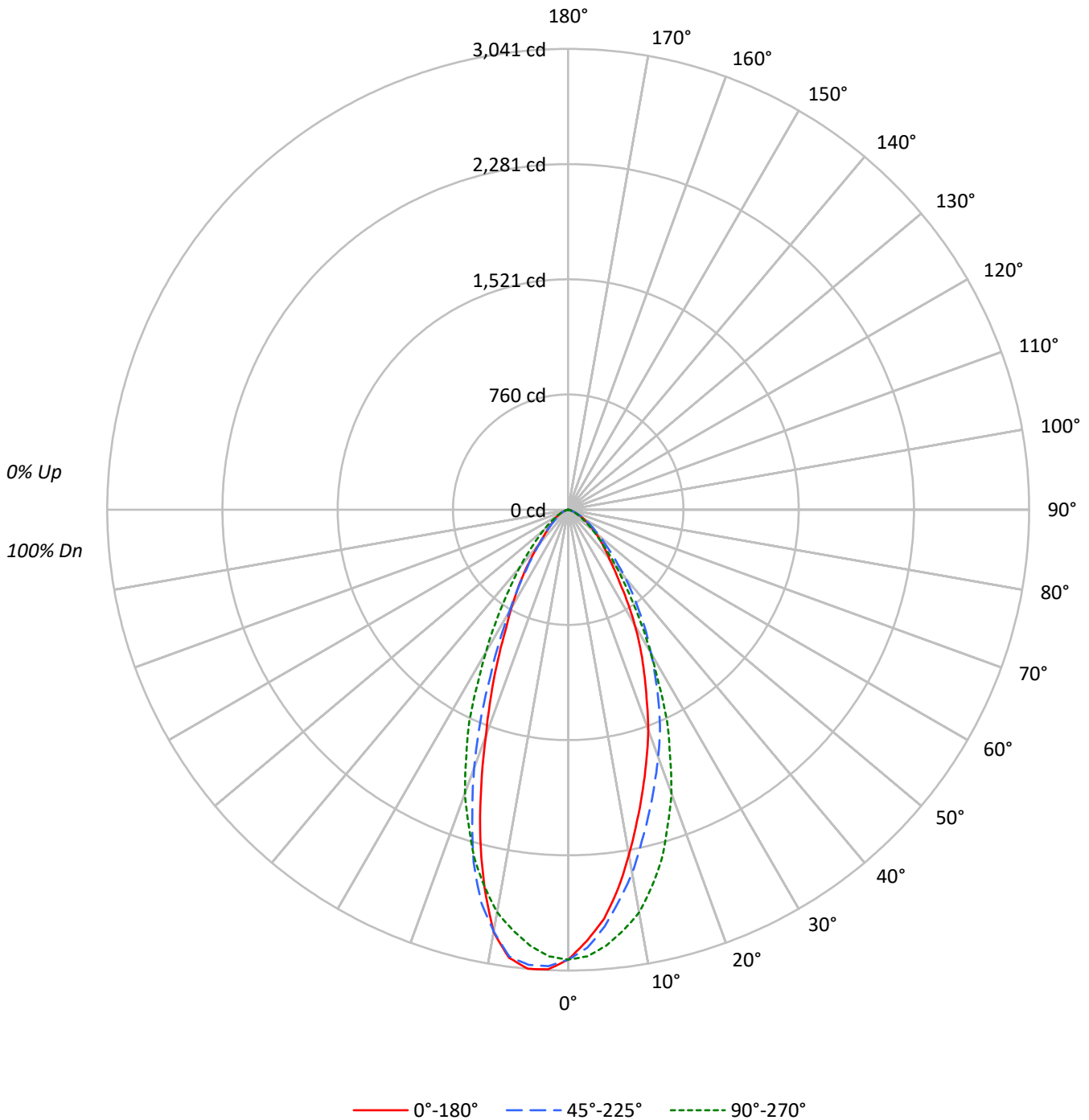
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	287623	287623	287623
5°	263516	280719	295753
10°	227077	265431	278495
15°	191038	239259	224846
20°	159227	205299	163536
25°	126579	165092	117312
30°	98383	121314	83997
35°	70792	86841	59179
40°	53418	62826	38900
45°	43128	44320	27496
50°	34498	32102	21220
55°	27682	23409	18292
60°	21274	17069	15384
65°	14075	12745	11920
70°	9602	9007	9602
75°	5390	5390	6213
80°	1227	781	781
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	11.4
10°-20°	616.2	26.3
20°-30°	609.9	26.1
30°-40°	409.6	17.5
40°-50°	232.3	9.9
50°-60°	127.7	5.5
60°-70°	59.0	2.5
70°-80°	16.5	0.7
80°-90°	0.3	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°	1493.6	63.9
0°-40°	1903.2	81.4
0°-60°	2263.2	96.8
0°-90°	2339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2339.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2969	2969	2969	2969	2969	
5°	2710	2760	2887	3014	3041	246
15°	1905	2066	2386	2408	2242	531
25°	1184	1412	1544	1217	1098	544
35°	599	816	734	482	500	384
45°	315	394	324	197	201	245
55°	164	186	139	92	108	148
65°	61	74	56	45	52	66
75°	14	15	14	14	17	17
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°	112.5°	135°	157.5°	180°
0°	2969.0	2969.0	2969.0	2969.0	2969.0	2969.0	2969.0	2969.0	2969.0
2.5°	2846.3	2862.9	2893.2	2925.7	2949.6	2991.4	3015.3	3034.8	3036.2
5°	2709.8	2724.3	2760.4	2824.6	2886.7	2973.4	3014.5	3042.0	3041.3
7.5°	2522.8	2556.0	2595.8	2704.1	2797.9	2898.3	2974.1	2975.5	2982.8
10°	2308.4	2340.9	2434.7	2552.4	2698.3	2801.5	2826.1	2826.1	2831.1
12.5°	2101.2	2146.6	2241.2	2390.0	2548.1	2659.3	2652.1	2576.3	2550.3
15°	1904.8	1948.8	2066.5	2217.4	2385.6	2444.8	2408.0	2280.9	2241.9
17.5°	1717.7	1756.7	1893.9	2079.5	2183.5	2210.2	2104.8	1953.9	1904.8
20°	1544.5	1585.6	1735.1	1905.5	1991.4	1955.3	1813.1	1628.2	1586.3
22.5°	1350.2	1414.5	1582.7	1717.7	1753.8	1675.9	1515.6	1374.8	1327.8
25°	1184.2	1263.6	1411.6	1538.7	1544.5	1414.5	1216.6	1142.3	1097.5
27.5°	1031.8	1123.5	1244.8	1332.9	1292.5	1156.0	984.1	924.9	891.0
30°	879.5	984.1	1091.0	1150.2	1084.5	931.4	772.6	748.0	750.9
32.5°	735.0	851.3	955.3	966.8	903.3	723.5	613.7	592.8	620.2
35°	598.6	711.9	815.9	822.4	734.3	567.5	482.3	466.4	500.4
37.5°	499.7	583.4	694.6	693.2	604.4	452.0	374.7	376.9	397.8
40°	422.4	484.5	583.4	586.3	496.8	362.5	298.2	290.3	307.6
42.5°	364.6	410.8	478.7	491.7	400.0	299.6	244.1	232.5	243.3
45°	314.8	347.3	394.2	409.4	323.5	236.8	197.1	189.9	200.7
47.5°	272.2	296.8	322.0	339.4	261.4	187.0	159.6	156.7	165.3
50°	228.9	254.9	265.7	278.7	213.0	152.4	130.0	133.6	140.8
52.5°	195.0	217.3	221.7	230.3	174.0	127.8	109.8	114.1	122.7
55°	163.9	180.5	185.6	186.3	138.6	105.4	92.4	99.6	108.3
57.5°	135.0	148.7	152.4	148.7	110.5	85.9	79.4	87.4	95.3
60°	109.8	117.0	125.6	116.2	88.1	70.8	66.4	73.6	79.4
62.5°	88.1	91.0	96.8	90.3	69.3	57.8	55.6	60.7	64.3
65°	61.4	68.6	73.6	66.4	55.6	46.9	44.8	48.4	52.0
67.5°	47.7	47.7	52.7	49.8	44.0	36.8	35.4	39.0	43.3
70°	33.9	34.7	36.8	36.8	31.8	28.2	26.7	31.0	33.9
72.5°	24.5	24.5	23.8	24.5	23.1	20.9	19.5	22.4	23.8
75°	14.4	15.9	15.2	15.9	14.4	13.7	13.7	15.2	16.6
77.5°	7.9	7.2	7.9	7.9	7.2	7.2	7.2	7.9	8.7
80°	2.2	2.2	2.9	2.2	1.4	1.4	2.2	2.2	1.4
82.5°	0.7	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)