

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: P328697

Luminaire Tested: **L815SQ30WW940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328697
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: L815SQ30WW940MB
Description: Square Track 26x1, 3000lm, WW, 4000K, black finish
Light Source: (26) 4000K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2386.0 lumens
Efficiency: N/A
Efficacy: 70.2 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

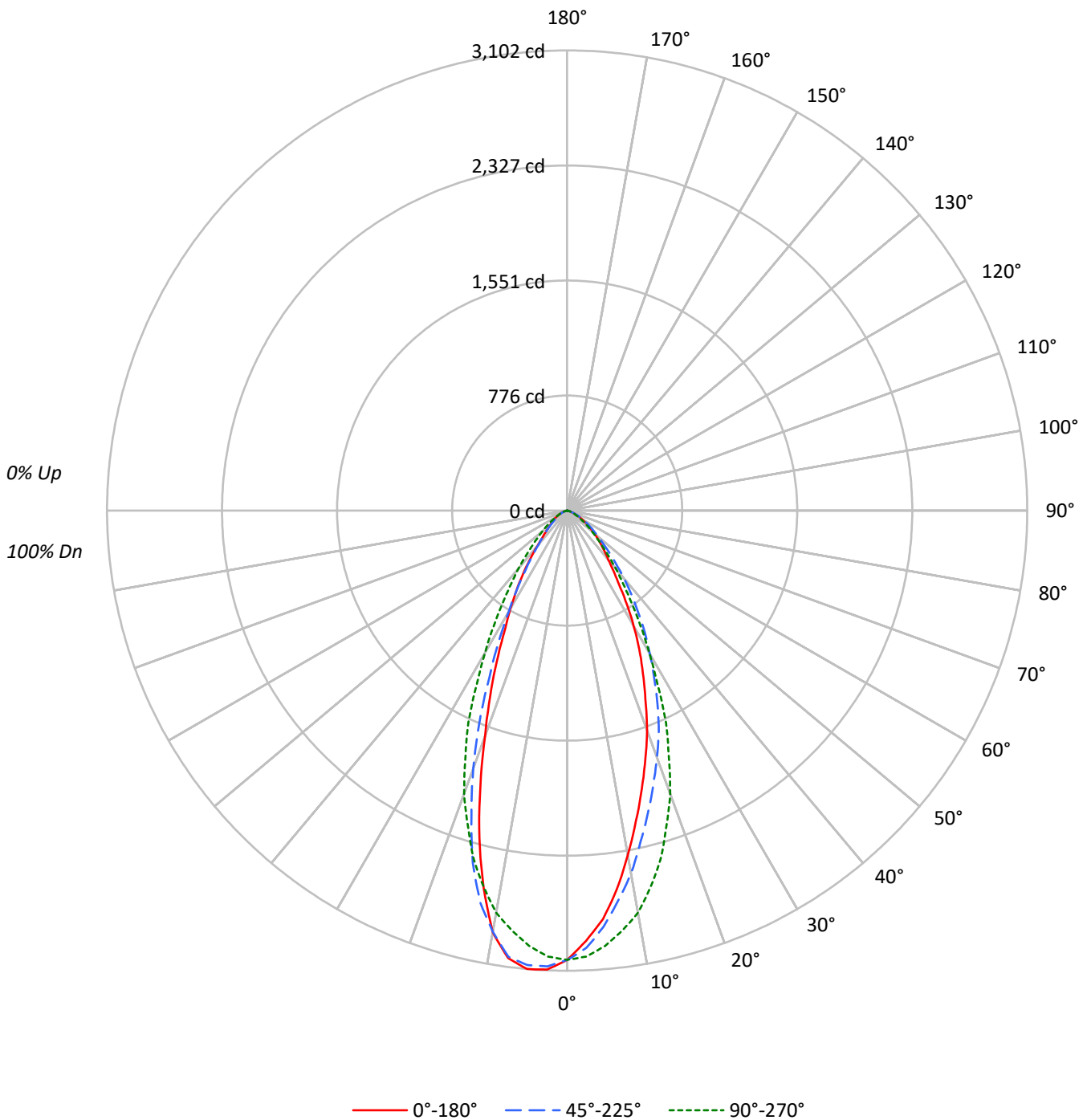
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	293407	293407	293407
5°	268816	286359	301694
10°	231641	270763	284092
15°	194869	244073	229370
20°	162423	209422	166825
25°	129113	168406	119674
30°	100351	123753	85686
35°	72211	88591	60361
40°	54492	64078	39684
45°	43992	45211	28058
50°	35191	32750	21642
55°	28240	23882	18663
60°	21700	17418	15694
65°	14350	12997	12149
70°	9800	9177	9800
75°	5502	5502	6326
80°	1227	837	837
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	11.4
10°-20°	628.5	26.3
20°-30°	622.2	26.1
30°-40°	417.8	17.5
40°-50°	237.0	9.9
50°-60°	130.3	5.5
60°-70°	60.2	2.5
70°-80°	16.8	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°	1523.6	63.9
0°-40°	1941.4	81.4
0°-60°	2308.7	96.8
0°-90°	2386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2386.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3029	3029	3029	3029	3029	
5°	2764	2816	2945	3075	3102	251
15°	1943	2108	2434	2456	2287	542
25°	1208	1440	1576	1241	1120	555
35°	611	832	749	492	510	392
45°	321	402	330	201	205	250
55°	167	189	141	94	110	151
65°	63	75	57	46	53	68
75°	15	16	15	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°	3028.7	3028.7	3028.7	3028.7	3028.7	3028.7	3028.7	3028.7	3028.7
2.5°	2903.5	2920.4	2951.4	2984.5	3008.8	3051.5	3075.8	3095.7	3097.2
5°	2764.3	2779.0	2815.8	2881.4	2944.7	3033.1	3075.1	3103.1	3102.4
7.5°	2573.5	2607.4	2647.9	2758.4	2854.1	2956.5	3033.9	3035.3	3042.7
10°	2354.8	2387.9	2483.7	2603.7	2752.5	2857.8	2882.9	2882.9	2888.0
12.5°	2143.4	2189.8	2286.3	2438.0	2599.3	2712.7	2705.4	2628.0	2601.5
15°	1943.0	1988.0	2108.0	2262.0	2433.6	2494.0	2456.4	2326.8	2287.0
17.5°	1752.3	1792.0	1932.0	2121.3	2227.3	2254.6	2147.1	1993.1	1943.0
20°	1575.5	1617.5	1769.9	1943.8	2031.4	1994.6	1849.5	1660.9	1618.2
22.5°	1377.4	1442.9	1614.5	1752.3	1789.1	1709.5	1546.0	1402.4	1354.5
25°	1207.9	1289.0	1440.0	1569.6	1575.5	1442.9	1241.1	1165.2	1119.6
27.5°	1052.5	1146.1	1269.8	1359.7	1318.4	1179.2	1003.9	943.5	908.9
30°	897.1	1003.9	1112.9	1173.3	1106.3	950.2	788.1	763.1	766.0
32.5°	749.8	868.4	974.5	986.2	921.4	738.0	626.1	604.7	632.7
35°	610.6	726.2	832.3	838.9	749.1	578.9	492.0	475.8	510.4
37.5°	509.7	595.1	708.6	707.1	616.5	461.1	382.3	384.5	405.8
40°	430.9	494.2	595.1	598.1	506.7	369.8	304.2	296.1	313.8
42.5°	372.0	419.1	488.3	501.6	408.1	305.7	249.0	237.2	248.2
45°	321.1	354.3	402.2	417.6	330.0	241.6	201.1	193.7	204.8
47.5°	277.7	302.7	328.5	346.2	266.6	190.8	162.8	159.8	168.7
50°	233.5	260.0	271.1	284.3	217.3	155.4	132.6	136.3	143.6
52.5°	198.9	221.7	226.1	235.0	177.5	130.4	112.0	116.4	125.2
55°	167.2	184.1	189.3	190.0	141.4	107.5	94.3	101.6	110.5
57.5°	137.7	151.7	155.4	151.7	112.7	87.6	81.0	89.1	97.2
60°	112.0	119.3	128.2	118.6	89.9	72.2	67.8	75.1	81.0
62.5°	89.9	92.8	98.7	92.1	70.7	58.9	56.7	61.9	65.6
65°	62.6	70.0	75.1	67.8	56.7	47.9	45.7	49.3	53.0
67.5°	48.6	48.6	53.8	50.8	44.9	37.6	36.1	39.8	44.2
70°	34.6	35.4	37.6	37.6	32.4	28.7	27.3	31.7	34.6
72.5°	25.0	25.0	24.3	25.0	23.6	21.4	19.9	22.8	24.3
75°	14.7	16.2	15.5	16.2	14.7	14.0	14.0	15.5	16.9
77.5°	8.1	7.4	8.1	8.1	7.4	7.4	7.4	8.1	8.8
80°	2.2	2.2	2.9	2.2	1.5	1.5	2.2	2.2	1.5
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)