

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: P328500

Luminaire Tested: **L815MED30WW935MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-14)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815MED30WW935MB  
Description: Medium, 3000lm, WW, 3500K, black finish  
Light Source: (1) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2404.0 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.77 / 0.63  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

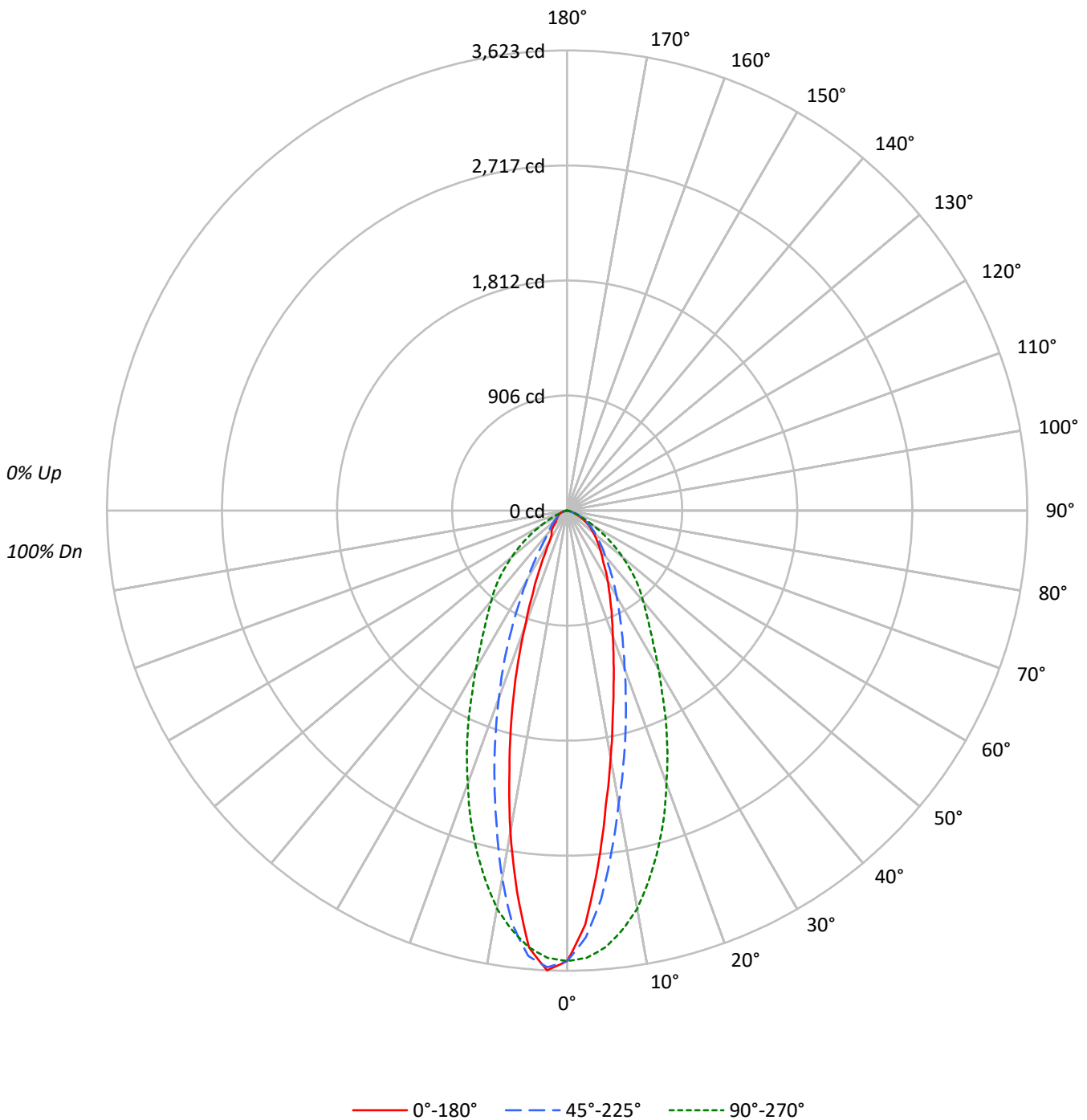
Input Watts (W): 37.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68					68			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	79	68	61	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54					54			
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51					51			
9	71	60	54	50	70	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
10	68	57	51	47	66	57	51	46	56	50	46	55	50	46	54	49	46	45					45			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	437470	437470	437470
5°	346415	427440	427304
10°	247040	398440	322252
15°	180206	352520	215820
20°	137720	300077	127232
25°	110347	250377	71315
30°	90812	204198	38925
35°	74506	171191	32344
40°	65179	149922	28790
45°	57861	132014	22171
50°	51350	109186	21146
55°	45955	85610	20795
60°	38558	60193	20525
65°	30208	39051	20343
70°	21891	19078	18645
75°	15012	12343	17157
80°	7174	8808	15201
85°	0	1557	12737



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.3	12.2
10°-20°	575.6	23.9
20°-30°	520.7	21.7
30°-40°	393.6	16.4
40°-50°	288.7	12.0
50°-60°	190.0	7.9
60°-70°	103.3	4.3
70°-80°	32.9	1.4
80°-90°	4.9	0.2
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°	1390.6	57.8
0°-40°	1784.3	74.2
0°-60°	2262.9	94.1
0°-90°	2404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3547	3547	3547	3547	3547	
5°	2798	3069	3452	3520	3451	241
15°	1411	1778	2761	2208	1690	397
25°	811	1001	1840	1037	524	376
35°	495	602	1137	374	215	316
45°	332	370	757	182	127	257
55°	214	232	398	102	97	190
65°	104	130	134	63	70	105
75°	32	21	26	32	36	34
85°	0	0	1	7	9	3
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°	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7
2.5°	3261.0	3306.0	3363.4	3448.8	3524.2	3583.8	3598.4	3615.3	3623.1
5°	2797.8	2872.0	3068.8	3286.9	3452.2	3530.9	3519.7	3488.2	3451.1
7.5°	2335.6	2416.5	2696.5	3080.0	3330.8	3407.2	3289.2	3109.2	3021.5
10°	1972.4	2079.2	2339.0	2820.2	3181.2	3230.7	2943.9	2641.4	2572.9
12.5°	1656.4	1763.2	2044.3	2543.6	2976.6	2983.3	2559.4	2227.6	2098.3
15°	1411.2	1505.7	1777.8	2274.9	2760.6	2697.7	2208.5	1822.8	1690.1
17.5°	1212.2	1275.2	1532.7	2001.6	2534.6	2414.3	1882.4	1465.2	1315.7
20°	1049.2	1103.1	1321.3	1764.3	2286.1	2128.7	1567.6	1122.3	969.3
22.5°	923.2	962.6	1151.5	1545.1	2062.3	1874.5	1301.0	834.4	707.3
25°	810.8	847.9	1000.8	1349.4	1839.7	1653.0	1036.8	602.7	524.0
27.5°	718.6	748.9	885.0	1188.6	1620.4	1452.9	814.1	436.3	364.3
30°	637.6	660.1	778.2	1025.5	1433.7	1271.8	633.1	318.2	273.3
32.5°	566.7	581.4	685.9	894.0	1270.7	1118.9	490.3	262.0	226.0
35°	494.8	515.0	601.6	783.8	1136.9	986.2	374.5	227.1	214.8
37.5°	449.8	461.0	529.6	685.9	1024.4	853.5	287.9	203.5	200.2
40°	404.8	413.8	466.7	599.4	931.1	725.3	238.4	182.2	178.8
42.5°	368.8	374.5	417.2	531.9	845.6	593.7	206.9	163.1	152.9
45°	331.7	336.2	370.0	470.0	756.8	481.3	182.2	146.2	127.1
47.5°	299.1	302.5	328.4	420.6	663.5	384.6	160.8	128.2	116.9
50°	267.6	269.9	294.6	376.7	569.0	303.6	138.3	113.6	110.2
52.5°	239.5	241.8	260.9	340.7	482.4	241.8	118.1	101.2	104.6
55°	213.7	210.3	231.6	308.1	398.1	186.7	102.3	92.2	96.7
57.5°	184.4	183.3	203.5	277.8	317.1	142.8	91.1	84.3	90.0
60°	156.3	156.3	177.7	246.3	244.0	113.6	81.0	78.7	83.2
62.5°	131.6	130.4	152.9	215.9	187.8	90.0	72.0	73.1	76.5
65°	103.5	109.1	130.4	174.3	133.8	73.1	63.0	65.2	69.7
67.5°	81.0	87.7	106.8	118.1	90.0	58.5	55.1	57.3	61.8
70°	60.7	68.6	79.8	65.2	52.9	46.1	47.2	49.5	51.7
72.5°	45.0	51.7	42.7	34.9	36.0	37.1	39.4	42.7	45.0
75°	31.5	30.4	21.4	21.4	25.9	29.2	31.5	33.7	36.0
77.5°	16.9	15.7	12.4	14.6	19.1	22.5	24.7	27.0	28.1
80°	10.1	7.9	6.7	9.0	12.4	15.7	18.0	20.2	21.4
82.5°	4.5	3.4	2.2	3.4	6.7	9.0	12.4	14.6	15.7
85°	0.0	0.0	0.0	0.0	1.1	3.4	6.7	9.0	9.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)