

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: P328452

Luminaire Tested: **L815MED10WW935MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328452  
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: L815MED10WW935MB  
Description: Medium, 1000lm, WW, 3500K, black finish  
Light Source: (1) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1042.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 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

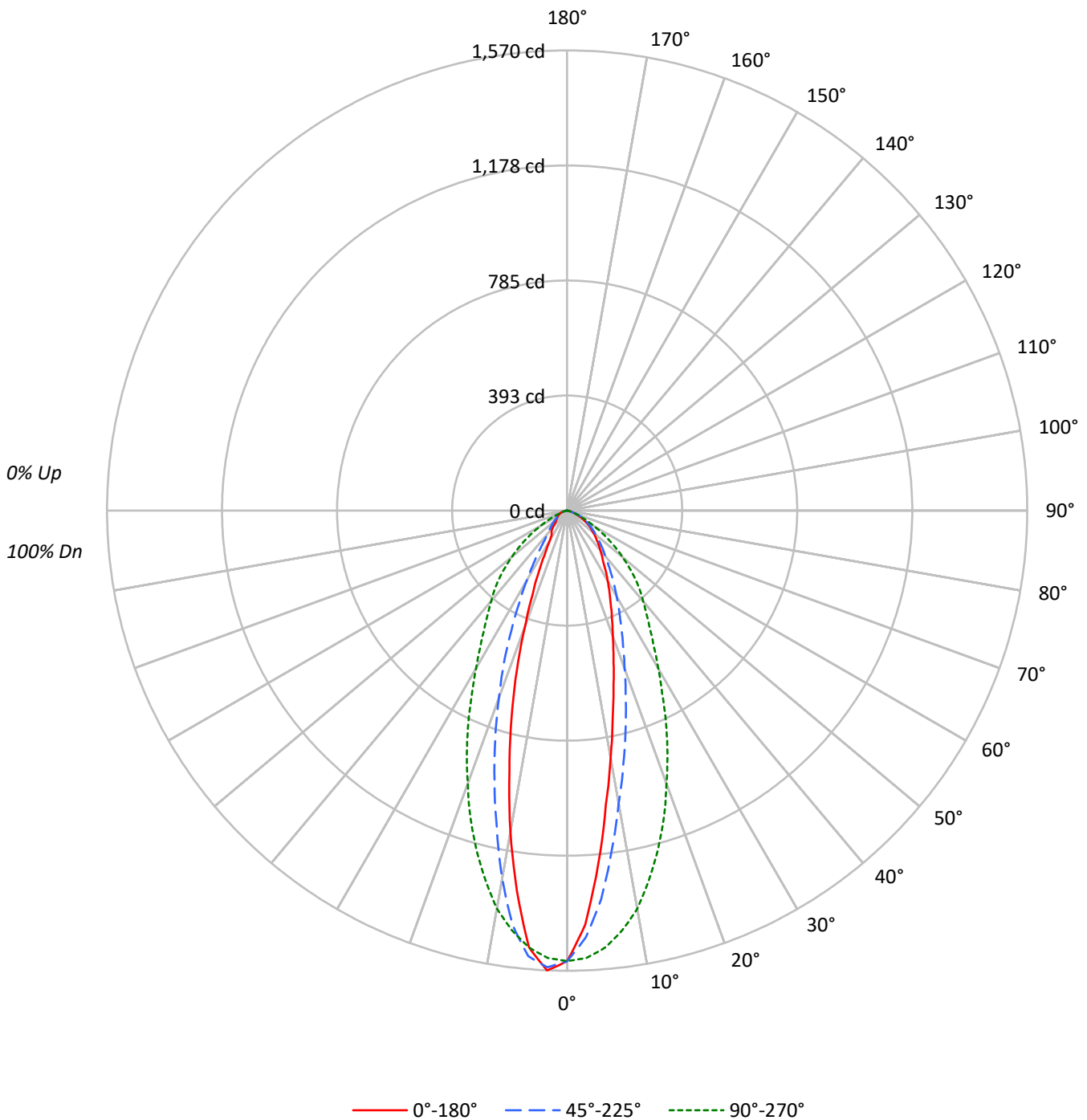
Input Watts (W): 12.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	189619	189619	189619
5°	150153	185267	185218
10°	107075	172705	139677
15°	78112	152802	93551
20°	59698	130067	55143
25°	47824	108524	30908
30°	39367	88504	16863
35°	32299	74204	14019
40°	28258	64986	12479
45°	25084	57215	9611
50°	22259	47321	9172
55°	19913	37096	9010
60°	16701	26100	8906
65°	13075	16928	8814
70°	9485	8259	8078
75°	6481	5338	7435
80°	3125	3836	6606
85°	0	708	5519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.6	12.2
10°-20°	249.5	23.9
20°-30°	225.7	21.7
30°-40°	170.6	16.4
40°-50°	125.1	12.0
50°-60°	82.3	7.9
60°-70°	44.8	4.3
70°-80°	14.3	1.4
80°-90°	2.1	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°	602.8	57.8
0°-40°	773.4	74.2
0°-60°	980.9	94.1
0°-90°	1042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1537	1537	1537	1537	1537	
5°	1213	1330	1496	1526	1496	105
15°	612	771	1197	957	733	172
25°	351	434	797	449	227	163
35°	214	261	493	162	93	137
45°	144	160	328	79	55	111
55°	93	100	172	44	42	82
65°	45	56	58	27	30	45
75°	14	9	11	14	16	15
85°	0	0	0	3	4	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°	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1413.5	1433.0	1457.8	1494.9	1527.5	1553.4	1559.7	1567.0	1570.4
5°	1212.7	1244.8	1330.1	1424.7	1496.3	1530.5	1525.6	1511.9	1495.9
7.5°	1012.3	1047.4	1168.8	1335.0	1443.7	1476.8	1425.7	1347.7	1309.7
10°	854.9	901.2	1013.8	1222.4	1378.9	1400.3	1276.0	1144.9	1115.2
12.5°	718.0	764.3	886.1	1102.5	1290.2	1293.1	1109.3	965.6	909.5
15°	611.7	652.6	770.6	986.0	1196.6	1169.3	957.3	790.1	732.6
17.5°	525.4	552.7	664.3	867.6	1098.6	1046.5	815.9	635.1	570.3
20°	454.8	478.1	572.7	764.7	990.9	922.7	679.4	486.4	420.1
22.5°	400.2	417.2	499.1	669.7	893.9	812.5	563.9	361.7	306.6
25°	351.4	367.5	433.8	584.9	797.4	716.5	449.4	261.3	227.1
27.5°	311.5	324.6	383.6	515.2	702.4	629.7	352.9	189.1	157.9
30°	276.4	286.1	337.3	444.5	621.4	551.3	274.4	137.9	118.4
32.5°	245.7	252.0	297.3	387.5	550.8	485.0	212.5	113.6	98.0
35°	214.5	223.2	260.8	339.7	492.8	427.5	162.3	98.5	93.1
37.5°	195.0	199.8	229.6	297.3	444.0	369.9	124.8	88.2	86.8
40°	175.5	179.4	202.3	259.8	403.6	314.4	103.3	79.0	77.5
42.5°	159.9	162.3	180.8	230.5	366.5	257.4	89.7	70.7	66.3
45°	143.8	145.7	160.4	203.7	328.0	208.6	79.0	63.4	55.1
47.5°	129.7	131.1	142.3	182.3	287.6	166.7	69.7	55.6	50.7
50°	116.0	117.0	127.7	163.3	246.6	131.6	60.0	49.2	47.8
52.5°	103.8	104.8	113.1	147.7	209.1	104.8	51.2	43.9	45.3
55°	92.6	91.1	100.4	133.5	172.5	80.9	44.4	40.0	41.9
57.5°	79.9	79.4	88.2	120.4	137.4	61.9	39.5	36.6	39.0
60°	67.7	67.7	77.0	106.7	105.8	49.2	35.1	34.1	36.1
62.5°	57.0	56.5	66.3	93.6	81.4	39.0	31.2	31.7	33.1
65°	44.8	47.3	56.5	75.5	58.0	31.7	27.3	28.3	30.2
67.5°	35.1	38.0	46.3	51.2	39.0	25.3	23.9	24.9	26.8
70°	26.3	29.7	34.6	28.3	22.9	20.0	20.5	21.4	22.4
72.5°	19.5	22.4	18.5	15.1	15.6	16.1	17.1	18.5	19.5
75°	13.6	13.2	9.3	9.3	11.2	12.7	13.6	14.6	15.6
77.5°	7.3	6.8	5.4	6.3	8.3	9.7	10.7	11.7	12.2
80°	4.4	3.4	2.9	3.9	5.4	6.8	7.8	8.8	9.3
82.5°	1.9	1.5	1.0	1.5	2.9	3.9	5.4	6.3	6.8
85°	0.0	0.0	0.0	0.0	0.5	1.5	2.9	3.9	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)