

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: P328451

Luminaire Tested: **L815MED10WW930MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328451
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: L815MED10WW930MB
Description: Medium, 1000lm, WW, 3000K, black finish
Light Source: (1) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

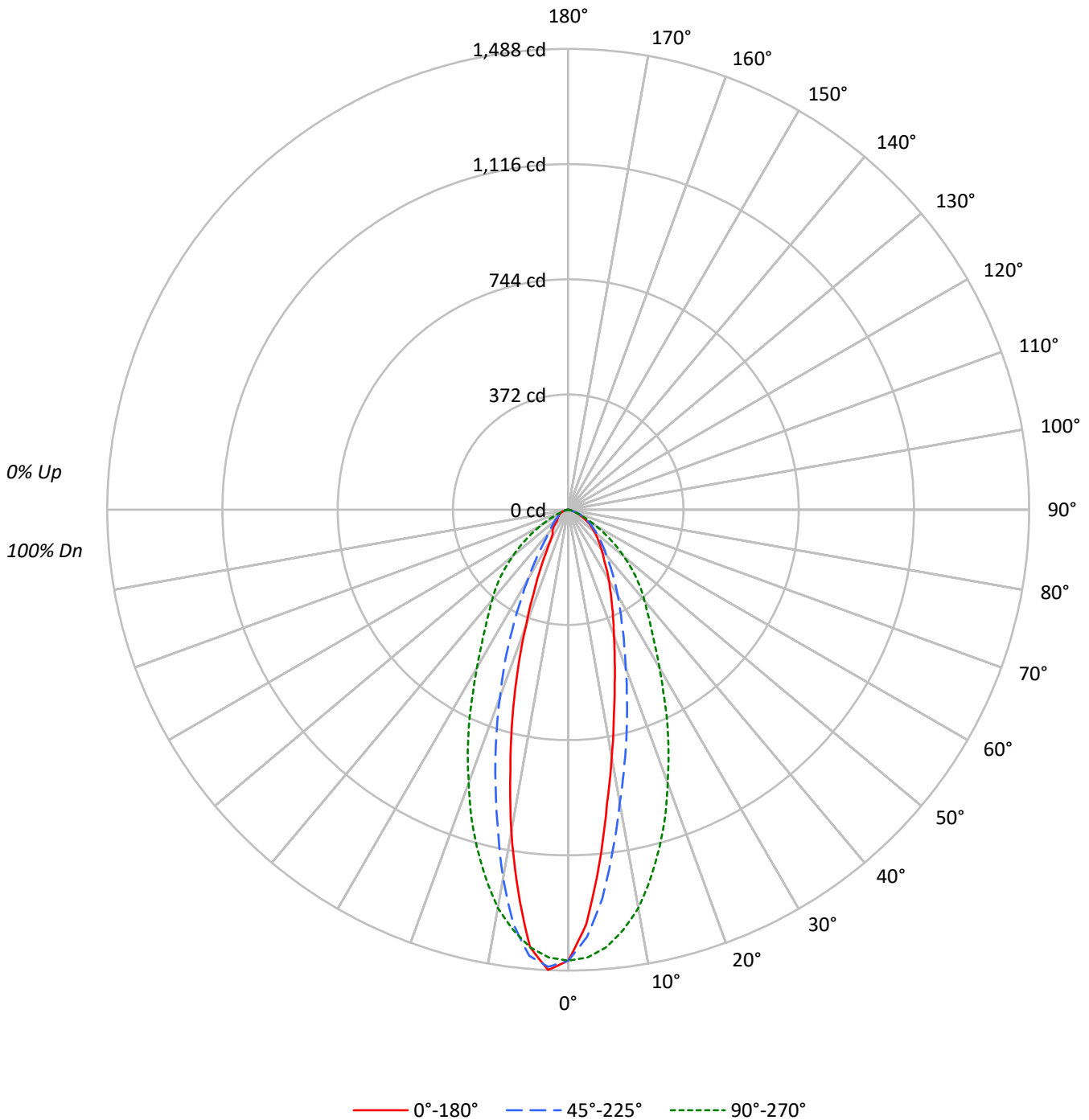
Lumens per Lamp: N/A
Luminaire Lumens: 987.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.77 / 0.63
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	79	68	61	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51
9	71	60	54	50	70	60	54	49	59	53	49	58	53	49	57	52	49	47
10	68	57	51	47	66	57	51	46	56	50	46	55	50	46	54	49	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	179604	179604	179604
5°	142228	175498	175436
10°	101426	163587	132300
15°	73988	144732	88609
20°	56534	123202	52242
25°	45307	102794	29274
30°	37287	83833	15980
35°	30582	70289	13281
40°	26761	61557	11819
45°	23758	54198	9106
50°	21089	44826	8674
55°	18860	35139	8537
60°	15838	24718	8437
65°	12404	16023	8347
70°	8980	7826	7646
75°	6148	5052	7053
80°	2983	3623	6251
85°	0	708	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	12.2
10°-20°	236.3	23.9
20°-30°	213.8	21.7
30°-40°	161.6	16.4
40°-50°	118.5	12.0
50°-60°	78.0	7.9
60°-70°	42.4	4.3
70°-80°	13.5	1.4
80°-90°	2.0	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°	571.0	57.8
0°-40°	732.6	74.2
0°-60°	929.1	94.1
0°-90°	987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1456	1456	1456	1456	1456	
5°	1149	1260	1417	1445	1417	99
15°	579	730	1133	907	694	163
25°	333	411	755	426	215	154
35°	203	247	467	154	88	130
45°	136	152	311	75	52	106
55°	88	95	163	42	40	78
65°	42	54	55	26	29	43
75°	13	9	11	13	15	14
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°	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1	1456.1
2.5°	1338.9	1357.3	1380.9	1416.0	1446.9	1471.4	1477.4	1484.3	1487.5
5°	1148.7	1179.1	1259.9	1349.5	1417.4	1449.7	1445.1	1432.1	1416.9
7.5°	958.9	992.2	1107.1	1264.5	1367.5	1398.9	1350.4	1276.5	1240.5
10°	809.8	853.6	960.3	1157.9	1306.1	1326.4	1208.7	1084.5	1056.3
12.5°	680.1	723.9	839.3	1044.3	1222.1	1224.8	1050.8	914.6	861.5
15°	579.4	618.2	729.9	934.0	1133.4	1107.6	906.7	748.4	693.9
17.5°	497.7	523.5	629.3	821.8	1040.6	991.2	772.9	601.6	540.2
20°	430.7	452.9	542.5	724.4	938.6	874.0	643.6	460.8	398.0
22.5°	379.0	395.2	472.8	634.3	846.7	769.6	534.2	342.6	290.4
25°	332.9	348.1	410.9	554.0	755.3	678.7	425.7	247.5	215.1
27.5°	295.0	307.5	363.3	488.0	665.3	596.5	334.3	179.1	149.6
30°	261.8	271.0	319.5	421.1	588.6	522.2	259.9	130.7	112.2
32.5°	232.7	238.7	281.6	367.0	521.7	459.4	201.3	107.6	92.8
35°	203.1	211.4	247.0	321.8	466.8	404.9	153.7	93.3	88.2
37.5°	184.7	189.3	217.5	281.6	420.6	350.4	118.2	83.6	82.2
40°	166.2	169.9	191.6	246.1	382.3	297.8	97.9	74.8	73.4
42.5°	151.4	153.7	171.3	218.4	347.2	243.8	84.9	66.9	62.8
45°	136.2	138.0	151.9	193.0	310.7	197.6	74.8	60.0	52.2
47.5°	122.8	124.2	134.8	172.7	272.4	157.9	66.0	52.6	48.0
50°	109.9	110.8	121.0	154.7	233.6	124.7	56.8	46.6	45.2
52.5°	98.3	99.3	107.1	139.9	198.1	99.3	48.5	41.6	42.9
55°	87.7	86.3	95.1	126.5	163.4	76.6	42.0	37.9	39.7
57.5°	75.7	75.3	83.6	114.0	130.2	58.6	37.4	34.6	36.9
60°	64.2	64.2	72.9	101.1	100.2	46.6	33.2	32.3	34.2
62.5°	54.0	53.6	62.8	88.6	77.1	36.9	29.5	30.0	31.4
65°	42.5	44.8	53.6	71.6	54.9	30.0	25.9	26.8	28.6
67.5°	33.2	36.0	43.9	48.5	36.9	24.0	22.6	23.5	25.4
70°	24.9	28.2	32.8	26.8	21.7	18.9	19.4	20.3	21.2
72.5°	18.5	21.2	17.5	14.3	14.8	15.2	16.2	17.5	18.5
75°	12.9	12.5	8.8	8.8	10.6	12.0	12.9	13.9	14.8
77.5°	6.9	6.5	5.1	6.0	7.8	9.2	10.2	11.1	11.5
80°	4.2	3.2	2.8	3.7	5.1	6.5	7.4	8.3	8.8
82.5°	1.8	1.4	0.9	1.4	2.8	3.7	5.1	6.0	6.5
85°	0.0	0.0	0.0	0.0	0.5	1.4	2.8	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)