

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: P328499

Luminaire Tested: **L815MED30WW930MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328499
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: L815MED30WW930MB
Description: Medium, 3000lm, WW, 3000K, black finish
Light Source: (1) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2278.0 lumens
Efficiency: N/A
Efficacy: 60.4 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

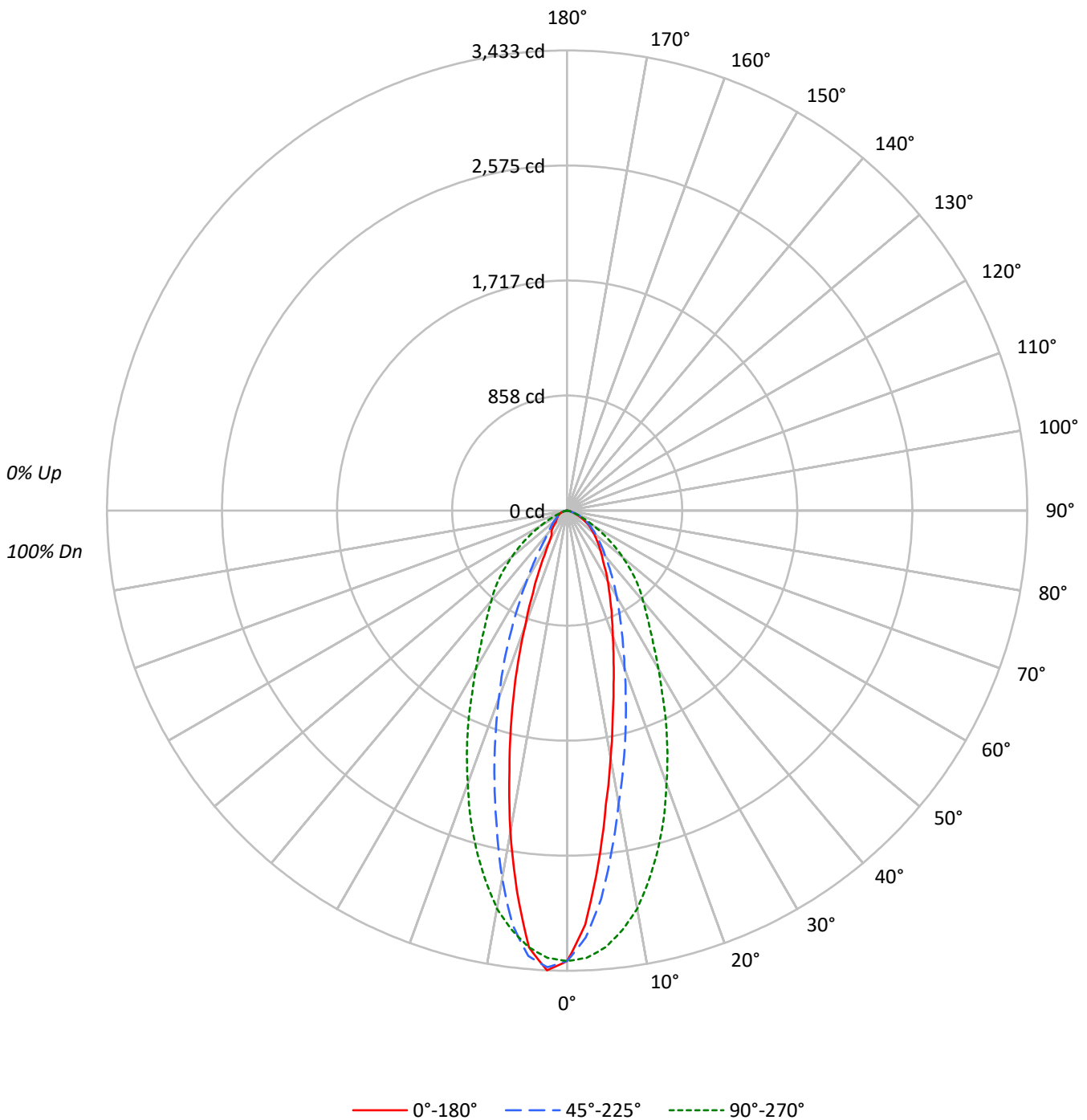
Input Watts (W): 37.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	414540	414540	414540
5°	328251	405042	404906
10°	234089	377561	305356
15°	170769	334055	204506
20°	130500	284352	120564
25°	104563	237258	67586
30°	86055	193502	36874
35°	70591	162217	30642
40°	61766	142065	27276
45°	54826	125089	21002
50°	48664	103468	20033
55°	43547	81116	19698
60°	36535	57035	19464
65°	28602	37008	19292
70°	20737	18068	17671
75°	14202	11676	16251
80°	6819	8311	14348
85°	0	1557	12029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	12.2
10°-20°	545.4	23.9
20°-30°	493.4	21.7
30°-40°	373.0	16.4
40°-50°	273.5	12.0
50°-60°	180.0	7.9
60°-70°	97.8	4.3
70°-80°	31.2	1.4
80°-90°	4.7	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°	1317.8	57.8
0°-40°	1690.8	74.2
0°-60°	2144.3	94.1
0°-90°	2278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3361	3361	3361	3361	3361	
5°	2651	2908	3271	3335	3270	228
15°	1337	1685	2616	2093	1602	376
25°	768	948	1743	982	497	356
35°	469	570	1077	355	204	300
45°	314	351	717	173	120	244
55°	202	220	377	97	92	180
65°	98	124	127	60	66	99
75°	30	20	24	30	34	32
85°	0	0	1	6	8	2
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°	3360.8	3360.8	3360.8	3360.8	3360.8	3360.8	3360.8	3360.8	3360.8
2.5°	3090.1	3132.8	3187.1	3268.1	3339.5	3395.9	3409.8	3425.8	3433.2
5°	2651.1	2721.4	2907.9	3114.6	3271.3	3345.9	3335.2	3305.4	3270.2
7.5°	2213.2	2289.9	2555.2	2918.6	3156.2	3228.7	3116.8	2946.3	2863.2
10°	1869.0	1970.2	2216.4	2672.4	3014.5	3061.4	2789.6	2503.0	2438.0
12.5°	1569.6	1670.8	1937.2	2410.3	2820.5	2826.9	2425.2	2110.9	1988.3
15°	1337.3	1426.8	1684.7	2155.6	2616.0	2556.3	2092.8	1727.3	1601.5
17.5°	1148.7	1208.3	1452.4	1896.7	2401.8	2287.8	1783.8	1388.4	1246.7
20°	994.2	1045.3	1252.0	1671.9	2166.3	2017.1	1485.4	1063.4	918.5
22.5°	874.8	912.1	1091.1	1464.1	1954.2	1776.3	1232.9	790.6	670.2
25°	768.3	803.4	948.3	1278.7	1743.3	1566.4	982.4	571.1	496.6
27.5°	680.9	709.7	838.6	1126.3	1535.5	1376.7	771.5	413.4	345.2
30°	604.2	625.5	737.4	971.8	1358.6	1205.2	599.9	301.6	258.9
32.5°	537.0	550.9	650.0	847.1	1204.1	1060.2	464.6	248.3	214.2
35°	468.8	488.0	570.1	742.7	1077.3	934.5	354.8	215.2	203.5
37.5°	426.2	436.9	501.9	650.0	970.7	808.8	272.8	192.9	189.7
40°	383.6	392.1	442.2	567.9	882.3	687.3	225.9	172.6	169.4
42.5°	349.5	354.8	395.3	504.0	801.3	562.6	196.1	154.5	144.9
45°	314.3	318.6	350.6	445.4	717.1	456.1	172.6	138.5	120.4
47.5°	283.4	286.6	311.1	398.5	628.7	364.4	152.4	121.5	110.8
50°	253.6	255.7	279.2	357.0	539.2	287.7	131.1	107.6	104.4
52.5°	227.0	229.1	247.2	322.9	457.1	229.1	111.9	95.9	99.1
55°	202.5	199.3	219.5	292.0	377.2	176.9	97.0	87.4	91.6
57.5°	174.8	173.7	192.9	263.2	300.5	135.3	86.3	79.9	85.2
60°	148.1	148.1	168.4	233.4	231.2	107.6	76.7	74.6	78.9
62.5°	124.7	123.6	144.9	204.6	177.9	85.2	68.2	69.3	72.5
65°	98.0	103.4	123.6	165.2	126.8	69.3	59.7	61.8	66.1
67.5°	76.7	83.1	101.2	111.9	85.2	55.4	52.2	54.3	58.6
70°	57.5	65.0	75.7	61.8	50.1	43.7	44.8	46.9	49.0
72.5°	42.6	49.0	40.5	33.0	34.1	35.2	37.3	40.5	42.6
75°	29.8	28.8	20.2	20.2	24.5	27.7	29.8	32.0	34.1
77.5°	16.0	14.9	11.7	13.9	18.1	21.3	23.4	25.6	26.6
80°	9.6	7.5	6.4	8.5	11.7	14.9	17.0	19.2	20.2
82.5°	4.3	3.2	2.1	3.2	6.4	8.5	11.7	13.9	14.9
85°	0.0	0.0	0.0	0.0	1.1	3.2	6.4	8.5	8.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)