

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: P328474

Luminaire Tested: **L815MED20WW927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328474
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: L815MED20WW927MB
Description: Medium, 2000lm, WW, 2700K, black finish
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1632.0 lumens
Efficiency: N/A
Efficacy: 66.1 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

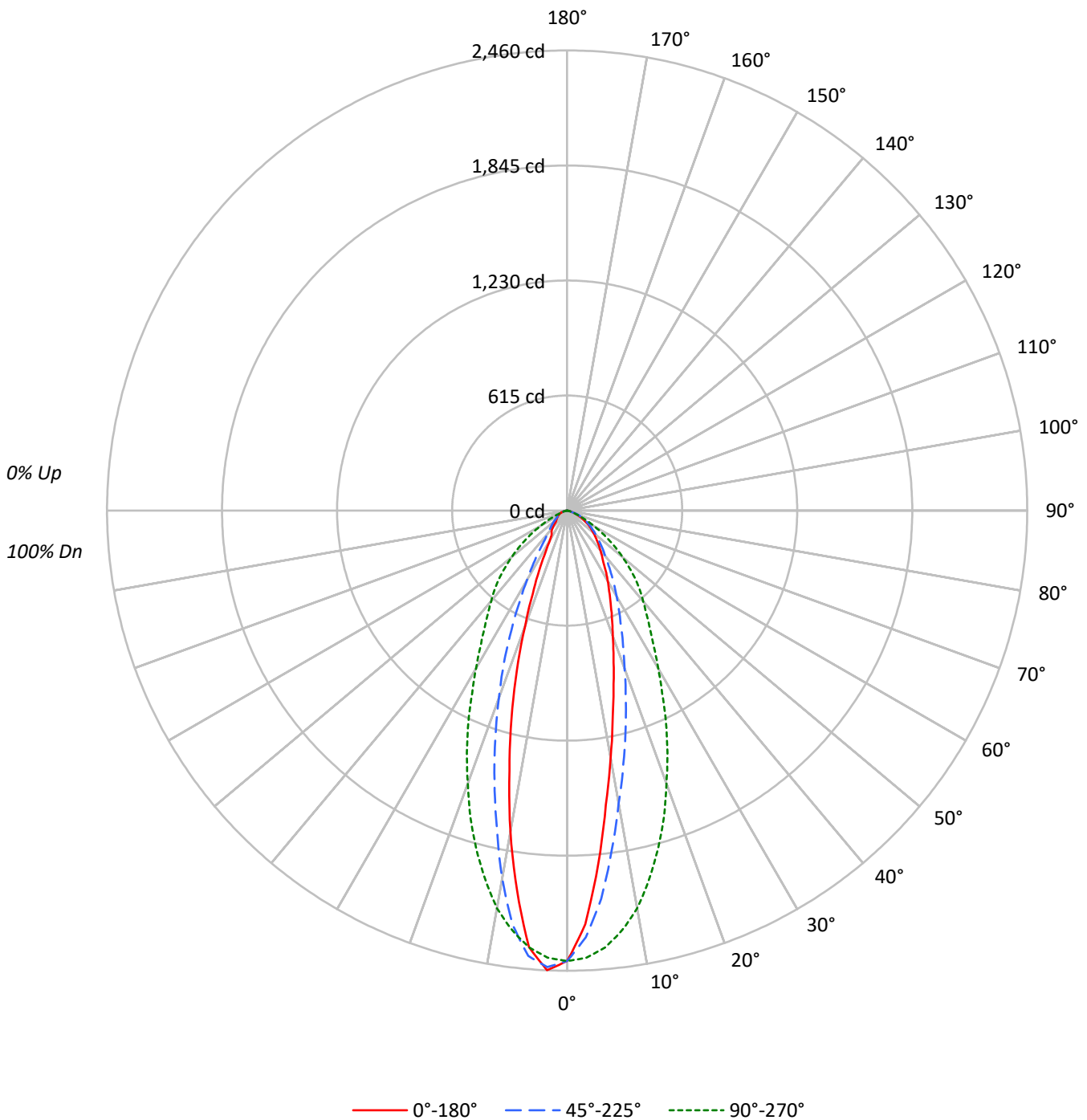
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	296979	296979	296979
5°	235165	290177	290078
10°	167708	270487	218759
15°	122346	239317	146519
20°	93485	203718	86370
25°	74908	169971	48410
30°	61643	138624	26420
35°	50579	116215	21954
40°	44247	101778	19547
45°	39283	89626	15054
50°	34867	74128	14354
55°	31182	58106	14129
60°	26174	40877	13938
65°	20489	26501	13805
70°	14858	12947	12658
75°	10199	8388	11628
80°	4901	5967	10300
85°	0	1132	8633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	12.2
10°-20°	390.7	23.9
20°-30°	353.5	21.7
30°-40°	267.2	16.4
40°-50°	196.0	12.0
50°-60°	129.0	7.9
60°-70°	70.1	4.3
70°-80°	22.3	1.4
80°-90°	3.3	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°	944.1	57.8
0°-40°	1211.3	74.2
0°-60°	1536.2	94.1
0°-90°	1632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2408	2408	2408	2408	2408	
5°	1899	2083	2344	2389	2343	164
15°	958	1207	1874	1499	1147	270
25°	550	679	1249	704	356	255
35°	336	408	772	254	146	215
45°	225	251	514	124	86	175
55°	145	157	270	70	66	129
65°	70	89	91	43	47	71
75°	21	14	18	21	24	23
85°	0	0	1	5	6	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°	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7
2.5°	2213.8	2244.4	2283.3	2341.3	2392.5	2432.9	2442.8	2454.3	2459.6
5°	1899.3	1949.7	2083.3	2231.4	2343.6	2397.0	2389.4	2368.0	2342.8
7.5°	1585.6	1640.5	1830.6	2090.9	2261.2	2313.1	2232.9	2110.8	2051.2
10°	1339.0	1411.5	1587.8	1914.6	2159.6	2193.2	1998.5	1793.2	1746.6
12.5°	1124.5	1197.0	1387.8	1726.8	2020.7	2025.3	1737.5	1512.3	1424.5
15°	958.1	1022.2	1206.9	1544.3	1874.1	1831.4	1499.3	1237.5	1147.4
17.5°	822.9	865.7	1040.5	1358.8	1720.7	1639.0	1277.9	994.7	893.2
20°	712.2	748.9	897.0	1197.8	1552.0	1445.1	1064.2	761.9	658.0
22.5°	626.7	653.5	781.7	1048.9	1400.1	1272.6	883.2	566.4	480.2
25°	550.4	575.6	679.4	916.1	1248.9	1122.2	703.8	409.2	355.7
27.5°	487.8	508.4	600.8	806.9	1100.0	986.3	552.7	296.2	247.3
30°	432.8	448.1	528.3	696.2	973.3	863.4	429.8	216.0	185.5
32.5°	384.7	394.7	465.7	606.9	862.6	759.6	332.8	177.9	153.4
35°	335.9	349.6	408.4	532.1	771.8	669.5	254.2	154.2	145.8
37.5°	305.4	313.0	359.6	465.7	695.4	579.4	195.4	138.2	135.9
40°	274.8	280.9	316.8	406.9	632.1	492.4	161.8	123.7	121.4
42.5°	250.4	254.2	283.2	361.1	574.1	403.1	140.5	110.7	103.8
45°	225.2	228.3	251.2	319.1	513.8	326.7	123.7	99.2	86.3
47.5°	203.1	205.4	222.9	285.5	450.4	261.1	109.2	87.0	79.4
50°	181.7	183.2	200.0	255.7	386.3	206.1	93.9	77.1	74.8
52.5°	162.6	164.1	177.1	231.3	327.5	164.1	80.2	68.7	71.0
55°	145.0	142.8	157.3	209.2	270.2	126.7	69.5	62.6	65.7
57.5°	125.2	124.4	138.2	188.6	215.3	97.0	61.8	57.3	61.1
60°	106.1	106.1	120.6	167.2	165.7	77.1	55.0	53.4	56.5
62.5°	89.3	88.6	103.8	146.6	127.5	61.1	48.9	49.6	51.9
65°	70.2	74.0	88.6	118.3	90.8	49.6	42.7	44.3	47.3
67.5°	55.0	59.5	72.5	80.2	61.1	39.7	37.4	38.9	42.0
70°	41.2	46.6	54.2	44.3	35.9	31.3	32.1	33.6	35.1
72.5°	30.5	35.1	29.0	23.7	24.4	25.2	26.7	29.0	30.5
75°	21.4	20.6	14.5	14.5	17.6	19.8	21.4	22.9	24.4
77.5°	11.5	10.7	8.4	9.9	13.0	15.3	16.8	18.3	19.1
80°	6.9	5.3	4.6	6.1	8.4	10.7	12.2	13.7	14.5
82.5°	3.1	2.3	1.5	2.3	4.6	6.1	8.4	9.9	10.7
85°	0.0	0.0	0.0	0.0	0.8	2.3	4.6	6.1	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)