

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: P328501

Luminaire Tested: **L815MED30WW940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328501
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: L815MED30WW940MB
Description: Medium, 3000lm, WW, 4000K, black finish
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2439.0 lumens
Efficiency: N/A
Efficacy: 64.7 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

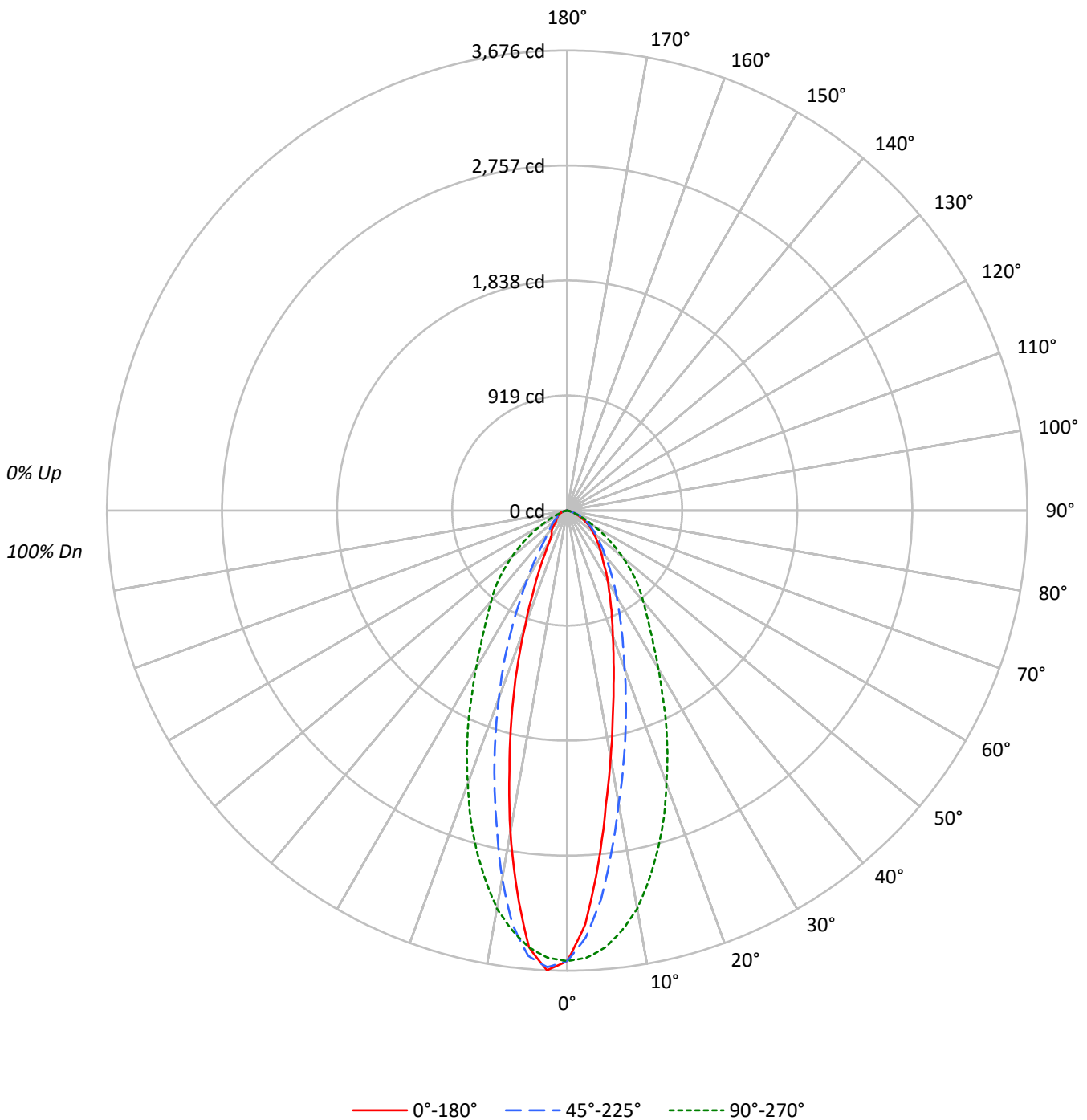
Input Watts (W): 37.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	443835	443835	443835
5°	351454	433668	433520
10°	250635	404239	326936
15°	182836	357653	218962
20°	139715	304448	129083
25°	111953	254025	72349
30°	92136	207175	39481
35°	75590	173676	32811
40°	66129	152096	29208
45°	58716	133933	22485
50°	52099	110779	21453
55°	46622	86857	21096
60°	39125	61081	20821
65°	30645	39635	20635
70°	22215	19330	18934
75°	15203	12486	17395
80°	7316	8879	15414
85°	0	1557	12879



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	12.2
10°-20°	583.9	23.9
20°-30°	528.3	21.7
30°-40°	399.4	16.4
40°-50°	292.8	12.0
50°-60°	192.8	7.9
60°-70°	104.8	4.3
70°-80°	33.4	1.4
80°-90°	5.0	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°	1410.9	57.8
0°-40°	1810.3	74.2
0°-60°	2295.9	94.1
0°-90°	2439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3598	3598	3598	3598	3598	
5°	2838	3113	3502	3571	3501	245
15°	1432	1804	2801	2241	1715	403
25°	823	1015	1866	1052	532	381
35°	502	610	1153	380	218	321
45°	337	375	768	185	129	261
55°	217	235	404	104	98	192
65°	105	132	136	64	71	106
75°	32	22	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°	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3
2.5°	3308.5	3354.2	3412.3	3499.1	3575.5	3636.0	3650.8	3667.9	3675.9
5°	2838.5	2913.8	3113.4	3334.8	3502.5	3582.3	3570.9	3539.0	3501.3
7.5°	2369.6	2451.7	2735.8	3124.8	3379.3	3456.8	3337.0	3154.5	3065.5
10°	2001.1	2109.5	2373.0	2861.3	3227.5	3277.7	2986.8	2679.9	2610.3
12.5°	1680.5	1788.9	2074.1	2580.7	3019.9	3026.7	2596.6	2260.1	2128.9
15°	1431.8	1527.6	1803.7	2308.0	2800.8	2736.9	2240.7	1849.4	1714.7
17.5°	1229.9	1293.7	1555.0	2030.8	2571.5	2449.5	1909.8	1486.6	1334.8
20°	1064.4	1119.2	1340.5	1790.0	2319.4	2159.7	1590.4	1138.6	983.4
22.5°	936.7	976.6	1168.3	1567.6	2092.4	1901.8	1320.0	846.5	717.6
25°	822.6	860.2	1015.4	1369.0	1866.5	1677.1	1051.9	611.5	531.6
27.5°	729.0	759.8	897.9	1205.9	1644.0	1474.0	826.0	442.7	369.6
30°	646.9	669.7	789.5	1040.5	1454.6	1290.3	642.3	322.9	277.2
32.5°	575.0	589.8	695.9	907.0	1289.2	1135.2	497.4	265.8	229.3
35°	502.0	522.5	610.4	795.2	1153.4	1000.5	379.9	230.5	217.9
37.5°	456.3	467.8	537.4	695.9	1039.3	865.9	292.1	206.5	203.1
40°	410.7	419.8	473.5	608.1	944.6	735.9	241.9	184.8	181.4
42.5°	374.2	379.9	423.3	539.6	857.9	602.4	209.9	165.4	155.2
45°	336.6	341.1	375.3	476.9	767.8	488.3	184.8	148.3	128.9
47.5°	303.5	306.9	333.1	426.7	673.1	390.2	163.1	130.1	118.7
50°	271.5	273.8	298.9	382.2	577.3	308.0	140.3	115.2	111.8
52.5°	243.0	245.3	264.7	345.7	489.4	245.3	119.8	102.7	106.1
55°	216.8	213.3	235.0	312.6	403.9	189.4	103.8	93.6	98.1
57.5°	187.1	186.0	206.5	281.8	321.7	144.9	92.4	85.6	91.3
60°	158.6	158.6	180.3	249.9	247.6	115.2	82.1	79.9	84.4
62.5°	133.5	132.3	155.2	219.0	190.5	91.3	73.0	74.2	77.6
65°	105.0	110.7	132.3	176.8	135.8	74.2	63.9	66.2	70.7
67.5°	82.1	89.0	108.4	119.8	91.3	59.3	55.9	58.2	62.7
70°	61.6	69.6	81.0	66.2	53.6	46.8	47.9	50.2	52.5
72.5°	45.6	52.5	43.4	35.4	36.5	37.6	39.9	43.4	45.6
75°	31.9	30.8	21.7	21.7	26.2	29.7	31.9	34.2	36.5
77.5°	17.1	16.0	12.5	14.8	19.4	22.8	25.1	27.4	28.5
80°	10.3	8.0	6.8	9.1	12.5	16.0	18.3	20.5	21.7
82.5°	4.6	3.4	2.3	3.4	6.8	9.1	12.5	14.8	16.0
85°	0.0	0.0	0.0	0.0	1.1	3.4	6.8	9.1	9.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)