

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: P328518

Luminaire Tested: **L815SML05WW927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SML05WW927MB
Description: Small, 500lm, WW, 2700K, black finish
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 485.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.85 / 0.82
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

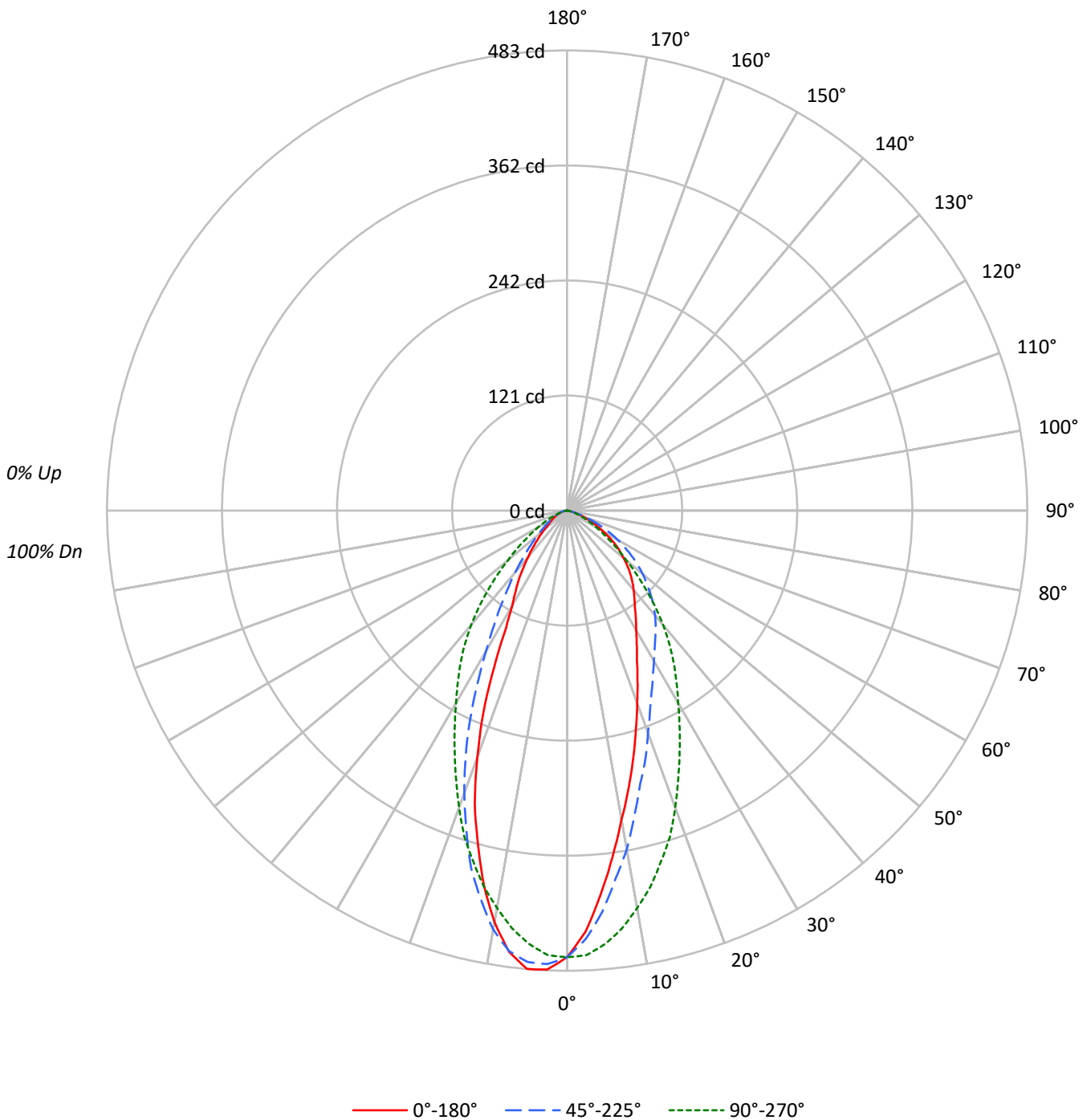
Input Watts (W): 6.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	102799	102799	102799
5°	89038	100528	106317
10°	73279	94298	97682
15°	60908	86493	82180
20°	50171	77357	64219
25°	41978	67576	43744
30°	36689	58996	29144
35°	33221	52200	23771
40°	31087	44827	18206
45°	29057	36128	14048
50°	26404	27701	10746
55°	23512	20759	8449
60°	19253	15481	7412
65°	14684	11311	6641
70°	10386	7565	5963
75°	6439	4999	5592
80°	2147	3536	4799
85°	0	755	3522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	8.6
10°-20°	96.2	19.8
20°-30°	104.6	21.6
30°-40°	91.3	18.8
40°-50°	71.2	14.7
50°-60°	46.6	9.6
60°-70°	24.6	5.1
70°-80°	8.0	1.7
80°-90°	1.1	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°	242.2	49.9
0°-40°	333.5	68.8
0°-60°	451.3	93.1
0°-90°	485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	469	469	469	469	469	
5°	404	423	457	476	483	36
15°	268	297	381	389	362	75
25°	174	210	279	240	181	81
35°	124	161	195	120	89	78
45°	94	124	116	59	45	72
55°	62	83	54	28	22	54
65°	28	40	22	14	13	29
75°	8	7	6	7	7	9
85°	0	0	0	1	1	0
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°	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8
2.5°	442.5	446.0	450.1	458.8	467.1	472.2	476.4	479.8	482.3
5°	404.5	414.5	422.8	439.4	456.7	469.1	475.7	479.8	483.0
7.5°	365.8	373.0	389.6	417.3	442.2	458.8	466.4	468.8	467.1
10°	329.1	337.4	360.6	391.0	423.5	441.5	446.7	443.9	438.7
12.5°	298.0	306.0	327.0	366.8	404.1	422.5	418.3	407.9	403.4
15°	268.3	274.1	296.6	340.9	381.0	395.1	388.9	371.6	362.0
17.5°	239.9	246.1	273.1	316.7	358.8	368.2	351.6	330.5	322.5
20°	215.0	222.6	248.2	293.9	331.5	337.1	315.6	292.5	275.2
22.5°	192.9	200.9	227.1	272.1	304.6	303.5	278.3	249.3	230.2
25°	173.5	182.5	209.8	252.4	279.3	272.4	240.3	204.0	180.8
27.5°	158.0	167.0	195.0	235.1	255.5	242.3	202.9	159.7	138.6
30°	144.9	153.8	182.2	220.2	233.0	212.6	170.1	129.3	115.1
32.5°	134.1	141.7	170.8	208.5	213.6	185.6	142.8	107.2	100.6
35°	124.1	132.4	161.4	197.1	195.0	160.8	120.3	91.3	88.8
37.5°	115.8	124.1	152.5	184.6	176.0	137.6	100.9	78.1	75.0
40°	108.6	116.5	143.5	169.4	156.6	115.8	85.0	67.1	63.6
42.5°	101.3	108.9	133.8	154.9	136.6	96.5	70.5	57.0	53.9
45°	93.7	100.9	123.8	137.6	116.5	79.5	58.8	48.7	45.3
47.5°	85.7	93.7	113.0	121.7	98.5	64.6	48.7	41.5	37.7
50°	77.4	85.0	103.7	106.8	81.2	52.5	40.4	34.2	31.5
52.5°	69.5	76.4	93.0	92.3	67.8	42.9	33.9	29.4	25.9
55°	61.5	67.4	82.6	78.8	54.3	34.9	28.3	24.9	22.1
57.5°	52.2	58.8	71.6	67.8	43.9	28.3	23.5	21.1	19.7
60°	43.9	49.4	60.8	56.4	35.3	23.2	19.7	18.0	16.9
62.5°	36.6	41.5	50.8	46.0	27.7	19.4	16.9	15.9	15.2
65°	28.3	33.5	40.4	36.0	21.8	15.6	14.5	13.8	12.8
67.5°	21.8	26.3	30.8	26.3	15.9	13.1	12.4	11.8	11.1
70°	16.2	19.7	21.8	17.6	11.8	10.7	10.7	10.0	9.3
72.5°	11.8	13.8	13.5	10.4	8.3	8.6	9.0	8.6	8.0
75°	7.6	8.0	7.3	5.9	5.9	6.9	7.3	6.9	6.6
77.5°	4.5	4.1	3.8	3.5	4.1	5.2	5.9	5.5	5.2
80°	1.7	2.1	2.1	2.1	2.8	3.8	4.5	4.1	3.8
82.5°	0.7	0.7	0.7	1.0	1.7	2.4	3.1	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.3	1.0	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)