

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: P328519

Luminaire Tested: **L815SML05WW930MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328519
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: L815SML05WW930MB
Description: Small, 500lm, WW, 3000K, black finish
Light Source: (1) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 517.0 lumens
Efficiency: N/A
Efficacy: 76.0 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

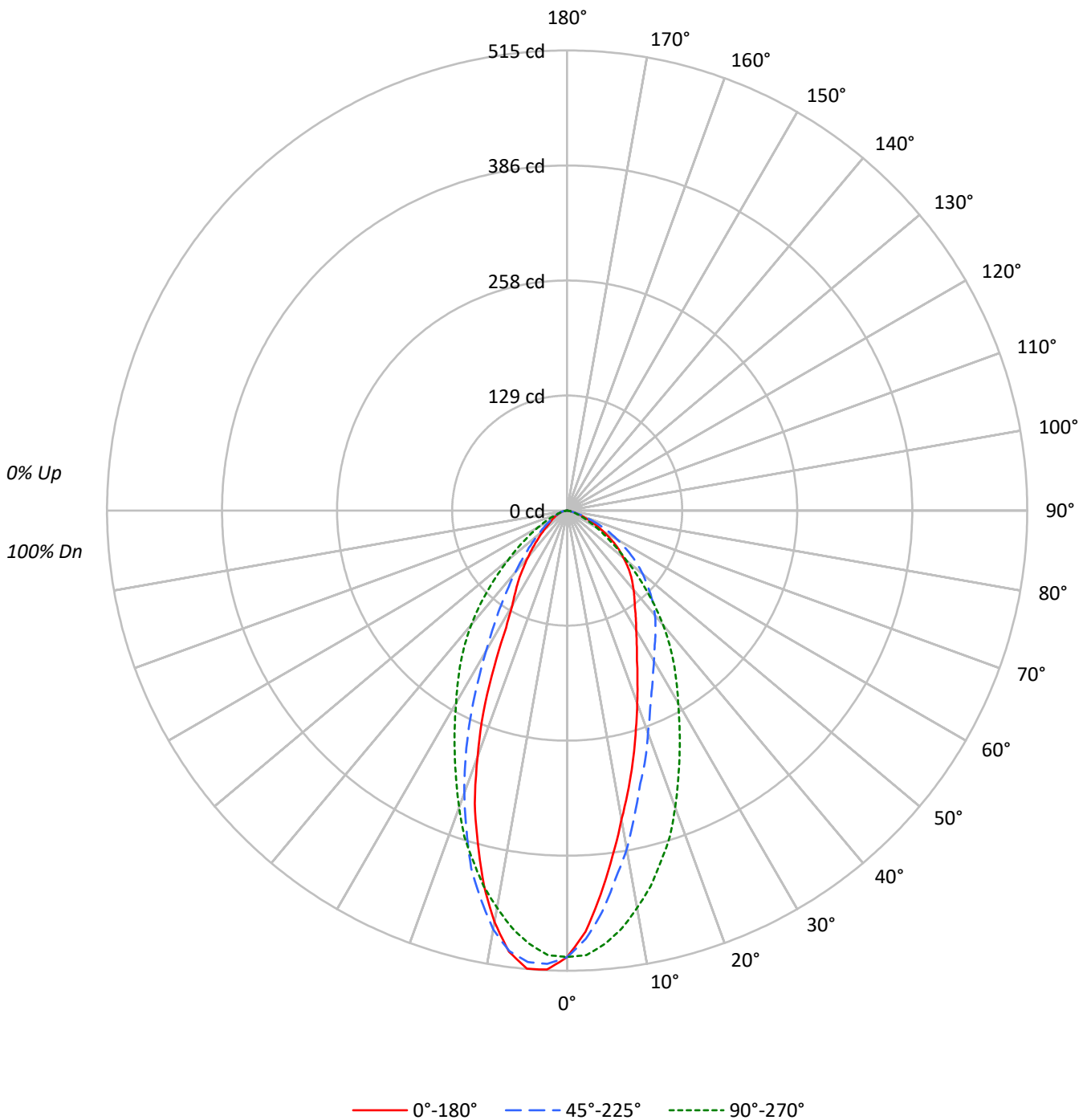
Input Watts (W): 6.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	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°	109575	109575	109575
5°	94915	107154	113317
10°	78110	100510	104140
15°	64927	92191	87583
20°	53485	82467	68443
25°	44761	72053	46624
30°	39095	62896	31068
35°	35416	55626	25350
40°	33119	47775	19408
45°	30980	38516	14978
50°	28144	29543	11428
55°	25079	22135	9022
60°	20525	16490	7938
65°	15670	12038	7057
70°	11092	8014	6411
75°	6863	5338	5931
80°	2273	3662	5177
85°	0	1006	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	8.5
10°-20°	102.5	19.8
20°-30°	111.5	21.6
30°-40°	97.3	18.8
40°-50°	75.9	14.7
50°-60°	49.7	9.6
60°-70°	26.2	5.1
70°-80°	8.5	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°	258.2	49.9
0°-40°	355.5	68.8
0°-60°	481.1	93.1
0°-90°	517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	500	500	500	500	500	
5°	431	451	487	507	515	39
15°	286	316	406	415	386	80
25°	185	224	298	256	193	86
35°	132	172	208	128	95	83
45°	100	132	124	63	48	77
55°	66	88	58	30	24	58
65°	30	43	23	16	14	31
75°	8	8	6	8	7	9
85°	0	0	0	2	2	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°	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7	499.7
2.5°	471.7	475.4	479.8	489.0	497.9	503.4	507.8	511.5	514.1
5°	431.2	441.9	450.7	468.4	486.8	500.1	507.1	511.5	514.8
7.5°	389.9	397.6	415.3	444.8	471.3	489.0	497.1	499.7	497.9
10°	350.8	359.7	384.4	416.8	451.4	470.6	476.1	473.2	467.7
12.5°	317.7	326.1	348.6	391.0	430.8	450.3	445.9	434.9	430.1
15°	286.0	292.2	316.2	363.4	406.1	421.2	414.6	396.2	385.8
17.5°	255.8	262.4	291.1	337.6	382.5	392.5	374.8	352.3	343.8
20°	229.2	237.3	264.6	313.2	353.4	359.3	336.5	311.8	293.3
22.5°	205.6	214.1	242.1	290.0	324.7	323.6	296.7	265.7	245.4
25°	185.0	194.6	223.7	269.0	297.8	290.4	256.1	217.4	192.7
27.5°	168.4	178.0	207.8	250.6	272.3	258.3	216.3	170.3	147.8
30°	154.4	164.0	194.2	234.7	248.4	226.6	181.3	137.8	122.7
32.5°	143.0	151.1	182.0	222.2	227.7	197.9	152.2	114.2	107.2
35°	132.3	141.1	172.1	210.1	207.8	171.4	128.2	97.3	94.7
37.5°	123.5	132.3	162.5	196.8	187.6	146.7	107.6	83.3	80.0
40°	115.7	124.2	152.9	180.6	166.9	123.5	90.7	71.5	67.8
42.5°	108.0	116.1	142.6	165.1	145.6	102.8	75.2	60.8	57.5
45°	99.9	107.6	131.9	146.7	124.2	84.8	62.6	52.0	48.3
47.5°	91.4	99.9	120.5	129.7	105.0	68.9	52.0	44.2	40.2
50°	82.5	90.7	110.6	113.9	86.6	56.0	43.1	36.5	33.5
52.5°	74.1	81.4	99.1	98.4	72.2	45.7	36.1	31.3	27.6
55°	65.6	71.9	88.1	84.0	57.9	37.2	30.2	26.5	23.6
57.5°	55.6	62.6	76.3	72.2	46.8	30.2	25.1	22.5	21.0
60°	46.8	52.7	64.9	60.1	37.6	24.7	21.0	19.2	18.1
62.5°	39.1	44.2	54.2	49.0	29.5	20.6	18.1	17.0	16.2
65°	30.2	35.7	43.1	38.3	23.2	16.6	15.5	14.7	13.6
67.5°	23.2	28.0	32.8	28.0	17.0	14.0	13.3	12.5	11.8
70°	17.3	21.0	23.2	18.8	12.5	11.4	11.4	10.7	10.0
72.5°	12.5	14.7	14.4	11.1	8.8	9.2	9.6	9.2	8.5
75°	8.1	8.5	7.7	6.3	6.3	7.4	7.7	7.4	7.0
77.5°	4.8	4.4	4.1	3.7	4.4	5.5	6.3	5.9	5.5
80°	1.8	2.2	2.2	2.2	2.9	4.1	4.8	4.4	4.1
82.5°	0.7	0.7	0.7	1.1	1.8	2.6	3.3	2.9	2.9
85°	0.0	0.0	0.0	0.0	0.4	1.1	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)