

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: P328520

Luminaire Tested: **L815SML05WW935MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328520
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: L815SML05WW935MB
Description: Small, 500lm, WW, 3500K, black finish
Light Source: (1) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

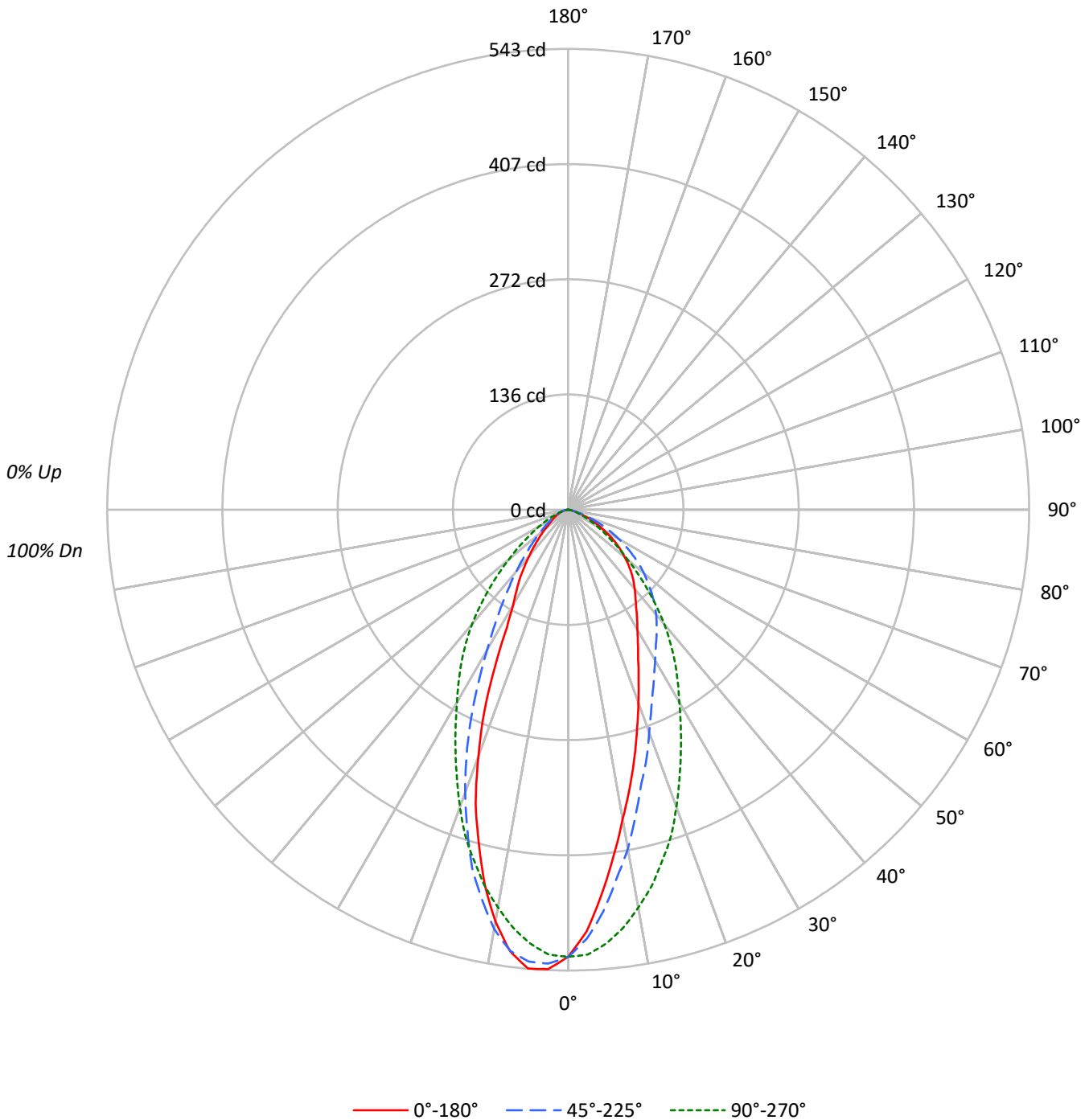
Lumens per Lamp: N/A
Luminaire Lumens: 545.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.85 / 0.82
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	115517	115517	115517
5°	100044	112965	119458
10°	82341	105966	109773
15°	68445	97186	92327
20°	56378	86948	72153
25°	47180	75948	49164
30°	41222	66289	32765
35°	37343	58651	26716
40°	34923	50380	20467
45°	32655	40593	15785
50°	29679	31146	12076
55°	26417	23321	9519
60°	21621	17367	8333
65°	16552	12712	7472
70°	11733	8463	6732
75°	7202	5592	6270
80°	2399	3915	5430
85°	0	1006	4026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	8.6
10°-20°	108.1	19.8
20°-30°	117.5	21.6
30°-40°	102.6	18.8
40°-50°	80.0	14.7
50°-60°	52.4	9.6
60°-70°	27.6	5.1
70°-80°	9.0	1.7
80°-90°	1.2	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°	272.2	49.9
0°-40°	374.7	68.8
0°-60°	507.1	93.1
0°-90°	545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	527	527	527	527	527	
5°	454	475	513	534	543	41
15°	302	333	428	437	407	84
25°	195	236	314	270	203	91
35°	140	181	219	135	100	88
45°	105	139	131	66	51	81
55°	69	93	61	32	25	61
65°	32	46	24	16	14	32
75°	8	8	7	8	7	10
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°	526.8	526.8	526.8	526.8	526.8	526.8	526.8	526.8	526.8
2.5°	497.3	501.1	505.8	515.5	524.8	530.7	535.3	539.2	541.9
5°	454.5	465.8	475.1	493.8	513.2	527.2	534.5	539.2	542.7
7.5°	411.0	419.2	437.8	468.9	496.9	515.5	524.1	526.8	524.8
10°	369.8	379.2	405.2	439.4	475.9	496.1	501.9	498.8	493.0
12.5°	334.9	343.8	367.5	412.2	454.1	474.7	470.1	458.4	453.4
15°	301.5	308.1	333.3	383.0	428.1	444.0	437.0	417.6	406.7
17.5°	269.6	276.6	306.9	355.8	403.2	413.7	395.1	371.4	362.5
20°	241.6	250.2	278.9	330.2	372.6	378.8	354.7	328.7	309.2
22.5°	216.8	225.7	255.2	305.7	342.3	341.1	312.7	280.1	258.7
25°	195.0	205.1	235.8	283.6	313.9	306.1	270.0	229.2	203.2
27.5°	177.5	187.6	219.1	264.2	287.1	272.3	228.0	179.5	155.8
30°	162.8	172.9	204.7	247.5	261.8	238.9	191.1	145.3	129.4
32.5°	150.7	159.3	191.9	234.3	240.1	208.6	160.4	120.4	113.0
35°	139.5	148.8	181.4	221.4	219.1	180.6	135.2	102.6	99.8
37.5°	130.1	139.5	171.3	207.4	197.7	154.6	113.4	87.8	84.3
40°	122.0	130.9	161.2	190.4	176.0	130.1	95.6	75.4	71.5
42.5°	113.8	122.4	150.3	174.0	153.4	108.4	79.2	64.1	60.6
45°	105.3	113.4	139.1	154.6	130.9	89.4	66.0	54.8	50.9
47.5°	96.3	105.3	127.0	136.7	110.7	72.6	54.8	46.6	42.3
50°	87.0	95.6	116.5	120.0	91.3	59.0	45.5	38.5	35.4
52.5°	78.1	85.9	104.5	103.7	76.1	48.2	38.1	33.0	29.1
55°	69.1	75.8	92.8	88.6	61.0	39.2	31.9	28.0	24.9
57.5°	58.7	66.0	80.4	76.1	49.3	31.9	26.4	23.7	22.1
60°	49.3	55.6	68.4	63.3	39.6	26.0	22.1	20.2	19.0
62.5°	41.2	46.6	57.1	51.7	31.1	21.8	19.0	17.9	17.1
65°	31.9	37.7	45.5	40.4	24.5	17.5	16.3	15.5	14.4
67.5°	24.5	29.5	34.6	29.5	17.9	14.8	14.0	13.2	12.4
70°	18.3	22.1	24.5	19.8	13.2	12.0	12.0	11.3	10.5
72.5°	13.2	15.5	15.2	11.7	9.3	9.7	10.1	9.7	8.9
75°	8.5	8.9	8.2	6.6	6.6	7.8	8.2	7.8	7.4
77.5°	5.1	4.7	4.3	3.9	4.7	5.8	6.6	6.2	5.8
80°	1.9	2.3	2.3	2.3	3.1	4.3	5.1	4.7	4.3
82.5°	0.8	0.8	0.8	1.2	1.9	2.7	3.5	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.4	1.2	1.6	1.6	1.6
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)