

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: P328521

Luminaire Tested: **L815SML05WW940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328521
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: L815SML05WW940MB
Description: Small, 500lm, WW, 4000K, black finish
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

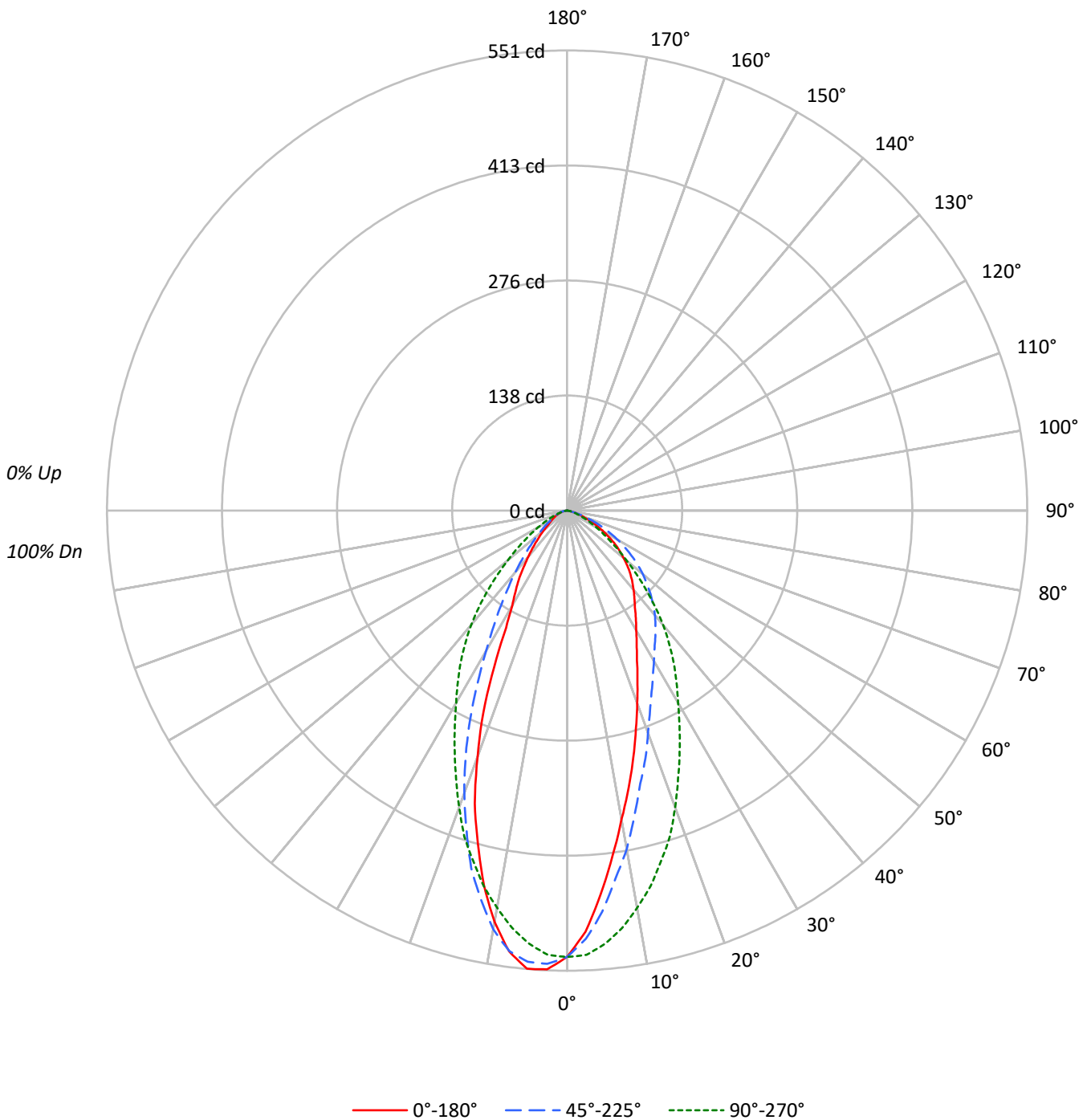
Lumens per Lamp: N/A
Luminaire Lumens: 553.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.85 / 0.82
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	117206	117206	117206
5°	101519	114616	121219
10°	83566	107524	111376
15°	69444	98616	93690
20°	57218	88208	73226
25°	47882	77061	49890
30°	41829	67276	33246
35°	37878	59508	27117
40°	35438	51124	20753
45°	33120	41183	16002
50°	30123	31590	12247
55°	26838	23665	9634
60°	21972	17630	8464
65°	16759	12868	7575
70°	11861	8591	6796
75°	7371	5676	6354
80°	2526	4041	5430
85°	0	1006	4026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	8.5
10°-20°	109.7	19.8
20°-30°	119.2	21.6
30°-40°	104.1	18.8
40°-50°	81.2	14.7
50°-60°	53.2	9.6
60°-70°	28.0	5.1
70°-80°	9.1	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°	276.2	49.9
0°-40°	380.2	68.8
0°-60°	514.6	93.1
0°-90°	553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	553.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	534	534	534	534	534	
5°	461	482	521	542	551	41
15°	306	338	434	444	413	85
25°	198	239	318	274	206	92
35°	142	184	222	137	101	89
45°	107	141	133	67	52	82
55°	70	94	62	32	25	62
65°	32	46	25	17	15	33
75°	9	8	7	8	8	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°	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5
2.5°	504.6	508.5	513.2	523.1	532.5	538.5	543.2	547.1	549.9
5°	461.2	472.6	482.1	501.0	520.7	534.9	542.4	547.1	550.7
7.5°	417.0	425.3	444.2	475.8	504.2	523.1	531.8	534.5	532.5
10°	375.3	384.7	411.1	445.8	482.9	503.4	509.3	506.1	500.2
12.5°	339.8	348.9	372.9	418.2	460.8	481.7	477.0	465.1	460.0
15°	305.9	312.6	338.2	388.7	434.4	450.6	443.5	423.7	412.7
17.5°	273.6	280.7	311.4	361.1	409.2	419.8	400.9	376.8	367.8
20°	245.2	253.9	283.0	335.1	378.0	384.3	359.9	333.5	313.8
22.5°	220.0	229.0	259.0	310.2	347.3	346.1	317.3	284.2	262.5
25°	197.9	208.1	239.3	287.8	318.5	310.6	274.0	232.6	206.2
27.5°	180.1	190.4	222.3	268.0	291.3	276.3	231.4	182.1	158.1
30°	165.2	175.4	207.7	251.1	265.7	242.4	193.9	147.4	131.3
32.5°	152.9	161.6	194.7	237.7	243.6	211.7	162.8	122.2	114.7
35°	141.5	151.0	184.1	224.7	222.3	183.3	137.2	104.1	101.3
37.5°	132.1	141.5	173.8	210.5	200.6	156.9	115.1	89.1	85.5
40°	123.8	132.8	163.6	193.1	178.6	132.1	97.0	76.5	72.5
42.5°	115.5	124.2	152.5	176.6	155.7	110.0	80.4	65.0	61.5
45°	106.8	115.1	141.1	156.9	132.8	90.7	67.0	55.6	51.6
47.5°	97.8	106.8	128.9	138.8	112.3	73.7	55.6	47.3	43.0
50°	88.3	97.0	118.3	121.8	92.6	59.9	46.1	39.0	35.9
52.5°	79.2	87.1	106.0	105.2	77.3	48.9	38.6	33.5	29.6
55°	70.2	76.9	94.2	89.9	61.9	39.8	32.3	28.4	25.2
57.5°	59.5	67.0	81.6	77.3	50.1	32.3	26.8	24.0	22.5
60°	50.1	56.4	69.4	64.3	40.2	26.4	22.5	20.5	19.3
62.5°	41.8	47.3	57.9	52.4	31.5	22.1	19.3	18.1	17.3
65°	32.3	38.2	46.1	41.0	24.8	17.7	16.6	15.8	14.6
67.5°	24.8	30.0	35.1	30.0	18.1	15.0	14.2	13.4	12.6
70°	18.5	22.5	24.8	20.1	13.4	12.2	12.2	11.4	10.6
72.5°	13.4	15.8	15.4	11.8	9.5	9.9	10.2	9.9	9.1
75°	8.7	9.1	8.3	6.7	6.7	7.9	8.3	7.9	7.5
77.5°	5.1	4.7	4.3	3.9	4.7	5.9	6.7	6.3	5.9
80°	2.0	2.4	2.4	2.4	3.2	4.3	5.1	4.7	4.3
82.5°	0.8	0.8	0.8	1.2	2.0	2.8	3.5	3.2	3.2
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)