

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: P232673

Luminaire Tested: **SMD6S12950WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1709-299-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD6S12950WH  
Description: HALO 6" SQUARE SURFACE MOUNT 1200LM  
Light Source: (21) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

**Summary**

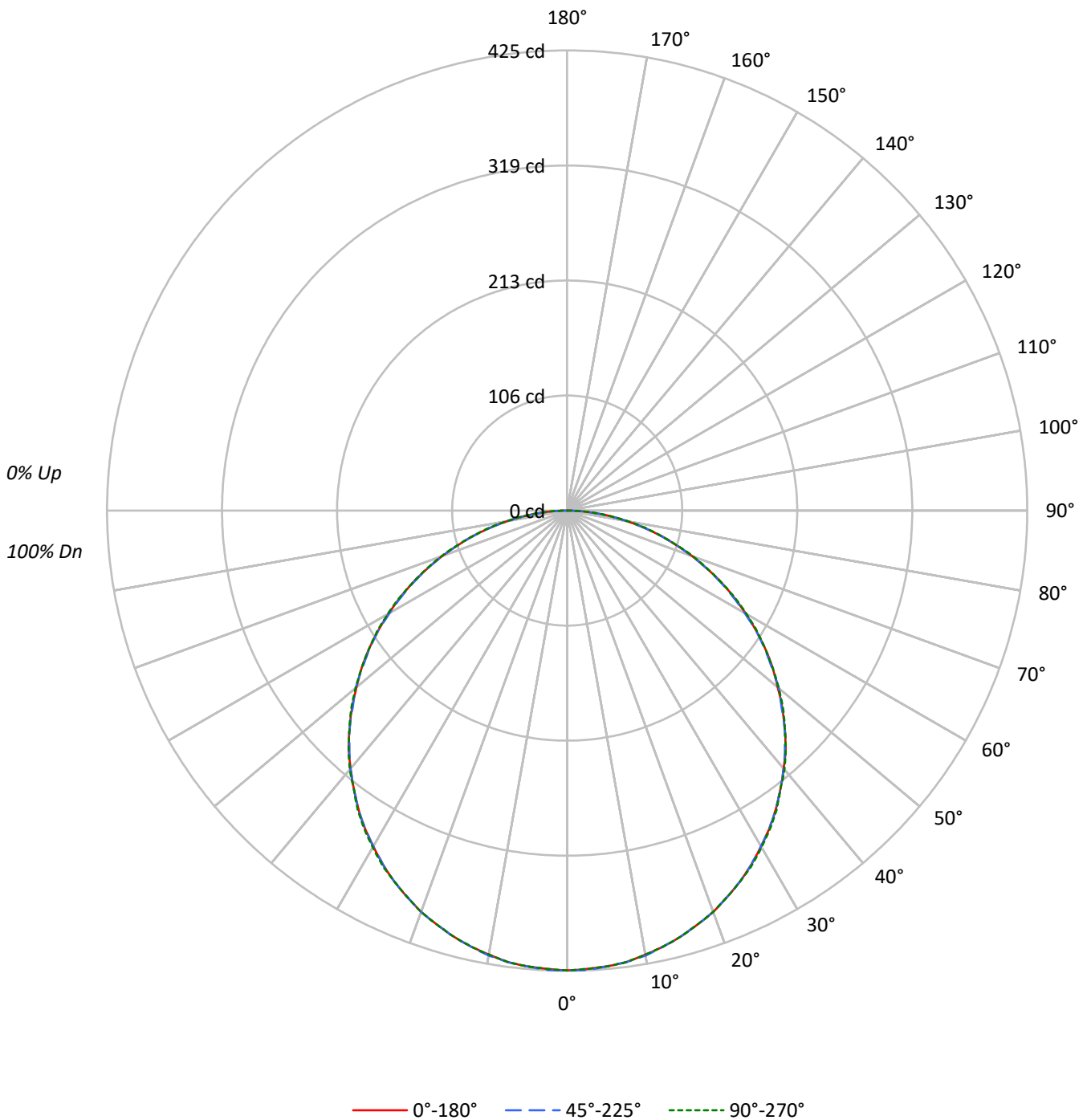
Lumens per Lamp: N/A  
Luminaire Lumens: 1236.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 0.52' x L: 0.52' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16852	16852	16852
5°	16833	16833	16833
10°	16778	16818	16778
15°	16720	16720	16720
20°	16658	16658	16658
25°	16545	16545	16545
30°	16408	16408	16453
35°	16286	16286	16339
40°	16120	16120	16177
45°	15948	15948	15948
50°	15680	15741	15741
55°	15483	15413	15483
60°	15118	15039	15197
65°	14760	14656	14760
70°	14247	14247	14375
75°	13721	13568	13721
80°	12842	12842	13094
85°	11837	11837	12338



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	3.2
10°-20°	114.9	9.3
20°-30°	174.1	14.1
30°-40°	210.3	17.0
40°-50°	219.1	17.7
50°-60°	199.4	16.1
60°-70°	154.9	12.5
70°-80°	94.0	7.6
80°-90°	29.1	2.4
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°	329.2	26.6
0°-40°	539.5	43.7
0°-60°	958.0	77.5
0°-90°	1236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	425	425	425	425	425	
5°	423	423	423	423	423	40
15°	407	407	407	407	407	115
25°	378	378	378	378	378	174
35°	336	336	336	336	337	210
45°	284	283	284	284	284	219
55°	224	223	223	223	224	200
65°	157	156	156	156	157	155
75°	90	88	88	88	90	94
85°	26	25	26	26	27	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	424.7	424.7	424.7	424.7	424.7
2.5°	423.7	423.7	424.7	423.7	423.7
5°	422.6	422.6	422.6	422.6	422.6
7.5°	420.5	420.5	420.5	420.5	420.5
10°	416.4	416.4	417.4	416.4	416.4
12.5°	412.2	412.2	412.2	412.2	412.2
15°	407.0	407.0	407.0	407.0	407.0
17.5°	400.8	400.8	400.8	400.8	400.8
20°	394.5	393.5	394.5	394.5	394.5
22.5°	386.2	386.2	386.2	386.2	386.2
25°	377.9	377.9	377.9	377.9	377.9
27.5°	368.5	368.5	368.5	368.5	369.5
30°	358.1	358.1	358.1	359.1	359.1
32.5°	347.7	347.7	347.7	347.7	348.7
35°	336.2	336.2	336.2	336.2	337.3
37.5°	323.7	323.7	323.7	324.8	323.7
40°	311.2	311.2	311.2	311.2	312.3
42.5°	298.8	297.7	297.7	298.8	298.8
45°	284.2	283.1	284.2	284.2	284.2
47.5°	269.6	269.6	268.6	269.6	270.6
50°	254.0	254.0	255.0	255.0	255.0
52.5°	239.4	238.4	238.4	239.4	239.4
55°	223.8	222.8	222.8	222.8	223.8
57.5°	207.1	206.1	207.1	207.1	208.2
60°	190.5	189.5	189.5	190.5	191.5
62.5°	173.8	172.8	172.8	173.8	174.9
65°	157.2	156.1	156.1	156.1	157.2
67.5°	139.5	139.5	139.5	140.5	140.5
70°	122.8	121.8	122.8	122.8	123.9
72.5°	105.1	105.1	105.1	106.2	106.2
75°	89.5	88.5	88.5	88.5	89.5
77.5°	71.8	71.8	71.8	72.9	73.9
80°	56.2	56.2	56.2	57.3	57.3
82.5°	40.6	40.6	40.6	41.6	41.6
85°	26.0	25.0	26.0	26.0	27.1
87.5°	11.5	11.5	11.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)