

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: P253159

Luminaire Tested: **SMD6S12935WHE**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253159  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-792-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD6S12935WHE  
Description: HALO 6" SQUARE SURFACE MOUNT 1200LM UNV Voltage  
Light Source: (28) 3500K CCT, 93 CRI LEDS  
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

**Summary**

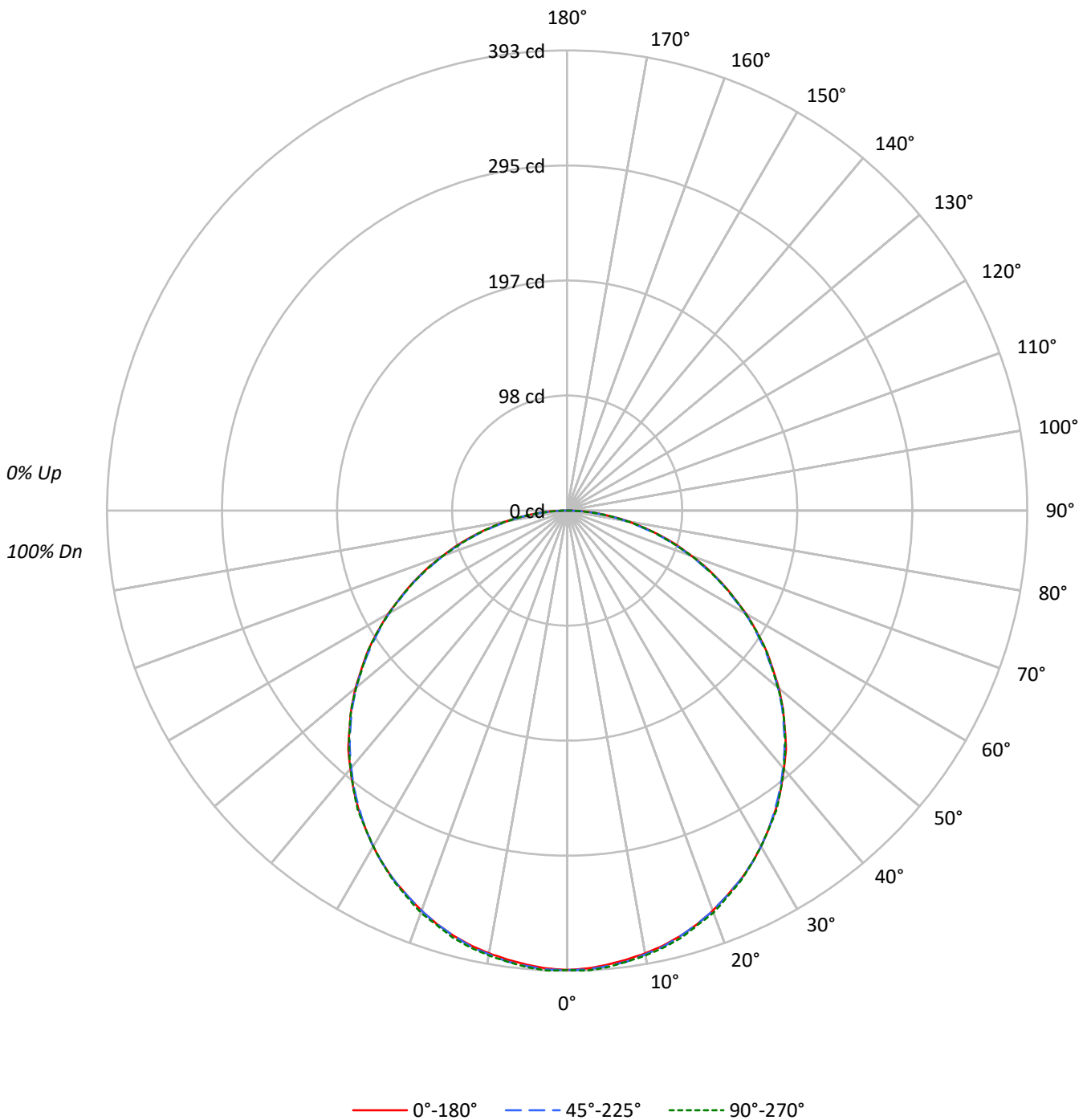
Lumens per Lamp: N/A  
Luminaire Lumens: 1140.0 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.52' x L: 0.52' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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	108	103	99	95	106	101	97	94	97	94	91	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	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	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	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°	45°	90°
0°	15567	15567	15567
5°	15514	15554	15590
10°	15472	15508	15545
15°	15434	15434	15508
20°	15354	15354	15434
25°	15271	15271	15311
30°	15175	15175	15175
35°	15060	15017	15104
40°	14908	14856	14908
45°	14747	14691	14747
50°	14562	14507	14507
55°	14341	14210	14341
60°	14023	13952	13952
65°	13642	13549	13549
70°	13098	12994	13098
75°	12618	12342	12480
80°	12042	11631	11837
85°	11382	10517	10517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.1	3.3
10°-20°	106.2	9.3
20°-30°	160.9	14.1
30°-40°	194.4	17.1
40°-50°	202.5	17.8
50°-60°	184.1	16.2
60°-70°	142.6	12.5
70°-80°	85.8	7.5
80°-90°	26.4	2.3
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°	304.2	26.7
0°-40°	498.6	43.7
0°-60°	885.3	77.7
0°-90°	1140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	390	390	390	390	391	37
15°	376	377	376	377	378	106
25°	349	350	349	350	350	161
35°	311	311	310	311	312	194
45°	263	263	262	263	263	203
55°	207	206	205	206	207	185
65°	145	144	144	143	144	143
75°	82	81	80	80	81	87
85°	25	24	23	23	23	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	392.3	392.3	392.3	392.3	392.3
2.5°	391.4	392.3	392.3	392.3	393.2
5°	389.5	390.5	390.5	390.5	391.4
7.5°	386.8	388.6	388.6	388.6	388.6
10°	384.0	384.9	384.9	384.9	385.8
12.5°	380.3	381.2	381.2	381.2	382.1
15°	375.7	376.6	375.7	376.6	377.5
17.5°	370.1	371.0	370.1	371.0	371.0
20°	363.6	364.6	363.6	364.6	365.5
22.5°	356.2	357.2	356.2	357.2	357.2
25°	348.8	349.7	348.8	349.7	349.7
27.5°	340.5	340.5	340.5	340.5	340.5
30°	331.2	331.2	331.2	332.2	331.2
32.5°	321.1	321.1	321.1	322.0	321.1
35°	310.9	310.9	310.0	310.9	311.8
37.5°	299.8	299.8	298.9	299.8	299.8
40°	287.8	287.8	286.8	287.8	287.8
42.5°	276.7	275.7	274.8	275.7	275.7
45°	262.8	262.8	261.8	262.8	262.8
47.5°	249.8	249.8	248.9	248.9	249.8
50°	235.9	235.0	235.0	235.0	235.0
52.5°	221.1	221.1	220.2	220.2	220.2
55°	207.3	206.3	205.4	206.3	207.3
57.5°	191.5	190.6	190.6	190.6	191.5
60°	176.7	175.8	175.8	175.8	175.8
62.5°	160.1	160.1	159.1	159.1	160.1
65°	145.3	144.3	144.3	143.4	144.3
67.5°	129.5	128.6	127.7	127.7	128.6
70°	112.9	112.9	112.0	112.0	112.9
72.5°	98.1	96.2	96.2	96.2	96.2
75°	82.3	81.4	80.5	80.5	81.4
77.5°	66.6	65.7	64.8	65.7	66.6
80°	52.7	51.8	50.9	50.9	51.8
82.5°	37.9	37.0	37.0	36.1	37.0
85°	25.0	24.1	23.1	23.1	23.1
87.5°	12.0	11.1	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)