

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: P253158

Luminaire Tested: **SMD6S12930WHE**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253158  
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: SMD6S12930WHE  
Description: HALO 6" SQUARE SURFACE MOUNT 1200LM UNV Voltage  
Light Source: (28) 3000K CCT, 92 CRI LEDS  
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

**Summary**

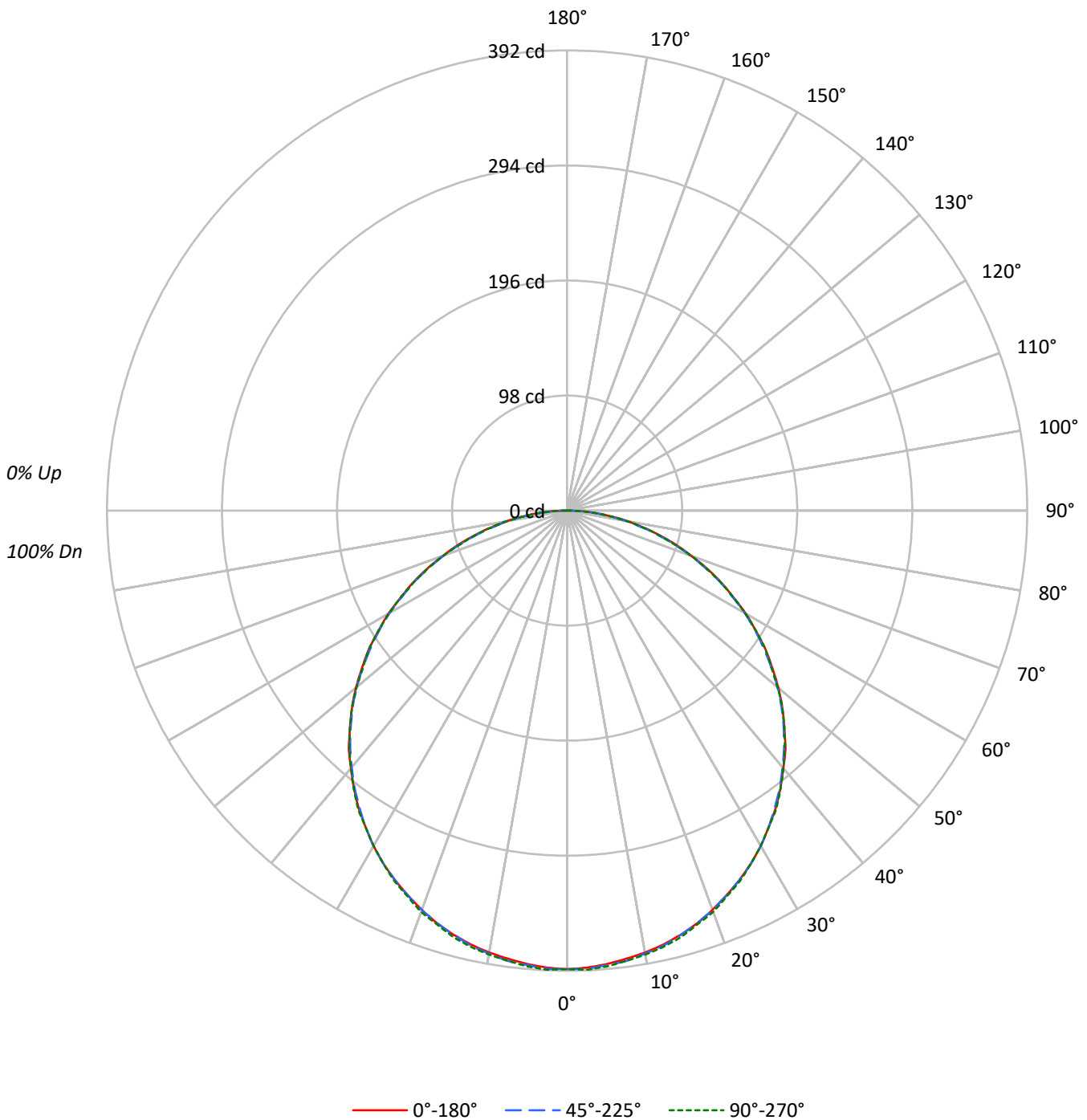
Lumens per Lamp: N/A  
Luminaire Lumens: 1135.0 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 0.52' x L: 0.52' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.9  
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°	15499	15499	15499
5°	15447	15483	15522
10°	15404	15440	15476
15°	15364	15364	15442
20°	15286	15286	15366
25°	15206	15206	15245
30°	15111	15111	15111
35°	14992	14949	15036
40°	14840	14794	14840
45°	14680	14629	14680
50°	14501	14445	14445
55°	14272	14147	14272
60°	13959	13888	13888
65°	13577	13492	13492
70°	13040	12936	13040
75°	12572	12280	12434
80°	11997	11585	11791
85°	11336	10471	10471



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.9	3.3
10°-20°	105.7	9.3
20°-30°	160.2	14.1
30°-40°	193.5	17.1
40°-50°	201.6	17.8
50°-60°	183.3	16.2
60°-70°	142.0	12.5
70°-80°	85.4	7.5
80°-90°	26.2	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°	302.9	26.7
0°-40°	496.4	43.7
0°-60°	881.4	77.7
0°-90°	1135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	391	391	391	391	391	
5°	388	389	389	389	390	37
15°	374	375	374	375	376	106
25°	347	348	347	348	348	160
35°	310	310	309	310	310	194
45°	262	262	261	262	262	202
55°	206	205	204	205	206	184
65°	145	144	144	143	144	143
75°	82	81	80	80	81	87
85°	25	24	23	23	23	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	390.6	390.6	390.6	390.6	390.6
2.5°	389.7	390.6	390.6	390.6	391.5
5°	387.8	388.7	388.7	388.7	389.7
7.5°	385.1	386.9	386.9	386.9	386.9
10°	382.3	383.2	383.2	383.2	384.1
12.5°	378.6	379.5	379.5	379.5	380.5
15°	374.0	374.9	374.0	374.9	375.9
17.5°	368.5	369.4	368.5	369.4	369.4
20°	362.0	363.0	362.0	363.0	363.9
22.5°	354.7	355.6	354.7	355.6	355.6
25°	347.3	348.2	347.3	348.2	348.2
27.5°	339.0	339.0	339.0	339.0	339.0
30°	329.8	329.8	329.8	330.7	329.8
32.5°	319.7	319.7	319.7	320.6	319.7
35°	309.5	309.5	308.6	309.5	310.4
37.5°	298.5	298.5	297.5	298.5	298.5
40°	286.5	286.5	285.6	286.5	286.5
42.5°	275.4	274.5	273.6	274.5	274.5
45°	261.6	261.6	260.7	261.6	261.6
47.5°	248.7	248.7	247.8	247.8	248.7
50°	234.9	234.0	234.0	234.0	234.0
52.5°	220.2	220.2	219.2	219.2	219.2
55°	206.3	205.4	204.5	205.4	206.3
57.5°	190.7	189.8	189.8	189.8	190.7
60°	175.9	175.0	175.0	175.0	175.0
62.5°	159.4	159.4	158.4	158.4	159.4
65°	144.6	143.7	143.7	142.8	143.7
67.5°	129.0	128.0	127.1	127.1	128.0
70°	112.4	112.4	111.5	111.5	112.4
72.5°	97.6	95.8	95.8	95.8	95.8
75°	82.0	81.1	80.1	80.1	81.1
77.5°	66.3	65.4	64.5	65.4	66.3
80°	52.5	51.6	50.7	50.7	51.6
82.5°	37.8	36.8	36.8	35.9	36.8
85°	24.9	24.0	23.0	23.0	23.0
87.5°	12.0	11.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)