

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: **SMD6S12935WH**

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: SMD6S12935WH
Description: HALO 6" SQUARE SURFACE MOUNT 1200LM
Light Source: (21) 3500K CCT, 90 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

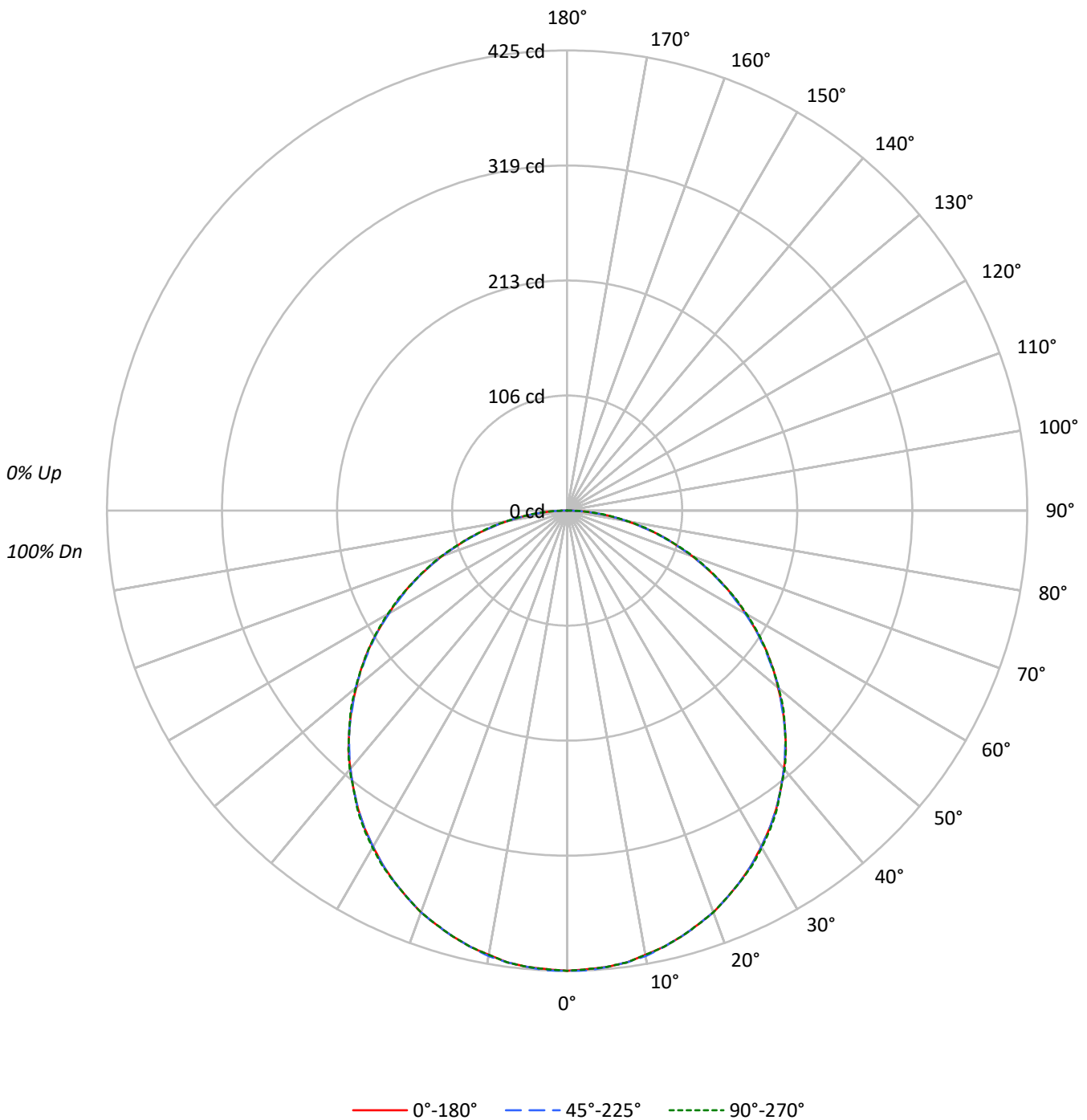
Lumens per Lamp: N/A
Luminaire Lumens: 1237.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.52' x L: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	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°	16868	16868	16868
5°	16849	16849	16849
10°	16790	16834	16790
15°	16732	16732	16732
20°	16671	16671	16671
25°	16558	16558	16558
30°	16421	16421	16467
35°	16300	16300	16349
40°	16135	16135	16187
45°	15959	15959	15959
50°	15692	15754	15754
55°	15496	15420	15496
60°	15126	15047	15213
65°	14769	14675	14769
70°	14258	14258	14386
75°	13737	13583	13737
80°	12865	12865	13094
85°	11837	11837	12338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	3.2
10°-20°	115.0	9.3
20°-30°	174.3	14.1
30°-40°	210.5	17.0
40°-50°	219.3	17.7
50°-60°	199.5	16.1
60°-70°	155.1	12.5
70°-80°	94.1	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°	329.4	26.6
0°-40°	540.0	43.7
0°-60°	958.7	77.5
0°-90°	1237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.0	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	338	210
45°	284	283	284	284	284	219
55°	224	223	223	223	224	200
65°	157	156	156	156	157	155
75°	90	89	89	89	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°	425.1	425.1	425.1	425.1	425.1
2.5°	424.0	424.0	425.1	424.0	424.0
5°	423.0	423.0	423.0	423.0	423.0
7.5°	420.9	420.9	420.9	420.9	420.9
10°	416.7	416.7	417.8	416.7	416.7
12.5°	412.6	412.6	412.6	412.6	412.6
15°	407.3	407.3	407.3	407.3	407.3
17.5°	401.1	401.1	401.1	401.1	401.1
20°	394.8	393.8	394.8	394.8	394.8
22.5°	386.5	386.5	386.5	386.5	386.5
25°	378.2	378.2	378.2	378.2	378.2
27.5°	368.8	368.8	368.8	368.8	369.8
30°	358.4	358.4	358.4	359.4	359.4
32.5°	348.0	348.0	348.0	348.0	349.0
35°	336.5	336.5	336.5	336.5	337.5
37.5°	324.0	324.0	324.0	325.0	324.0
40°	311.5	311.5	311.5	311.5	312.5
42.5°	299.0	298.0	298.0	299.0	299.0
45°	284.4	283.4	284.4	284.4	284.4
47.5°	269.8	269.8	268.8	269.8	270.9
50°	254.2	254.2	255.2	255.2	255.2
52.5°	239.6	238.6	238.6	239.6	239.6
55°	224.0	222.9	222.9	222.9	224.0
57.5°	207.3	206.3	207.3	207.3	208.4
60°	190.6	189.6	189.6	190.6	191.7
62.5°	174.0	172.9	172.9	174.0	175.0
65°	157.3	156.3	156.3	156.3	157.3
67.5°	139.6	139.6	139.6	140.6	140.6
70°	122.9	121.9	122.9	122.9	124.0
72.5°	105.2	105.2	105.2	106.3	106.3
75°	89.6	88.6	88.6	88.6	89.6
77.5°	71.9	71.9	71.9	72.9	74.0
80°	56.3	56.3	56.3	57.3	57.3
82.5°	40.6	40.6	40.6	41.7	41.7
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)