

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: **SMD6S12927WH**

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: SMD6S12927WH
Description: HALO 6" SQUARE SURFACE MOUNT 1200LM
Light Source: (21) 2700K CCT, 90 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

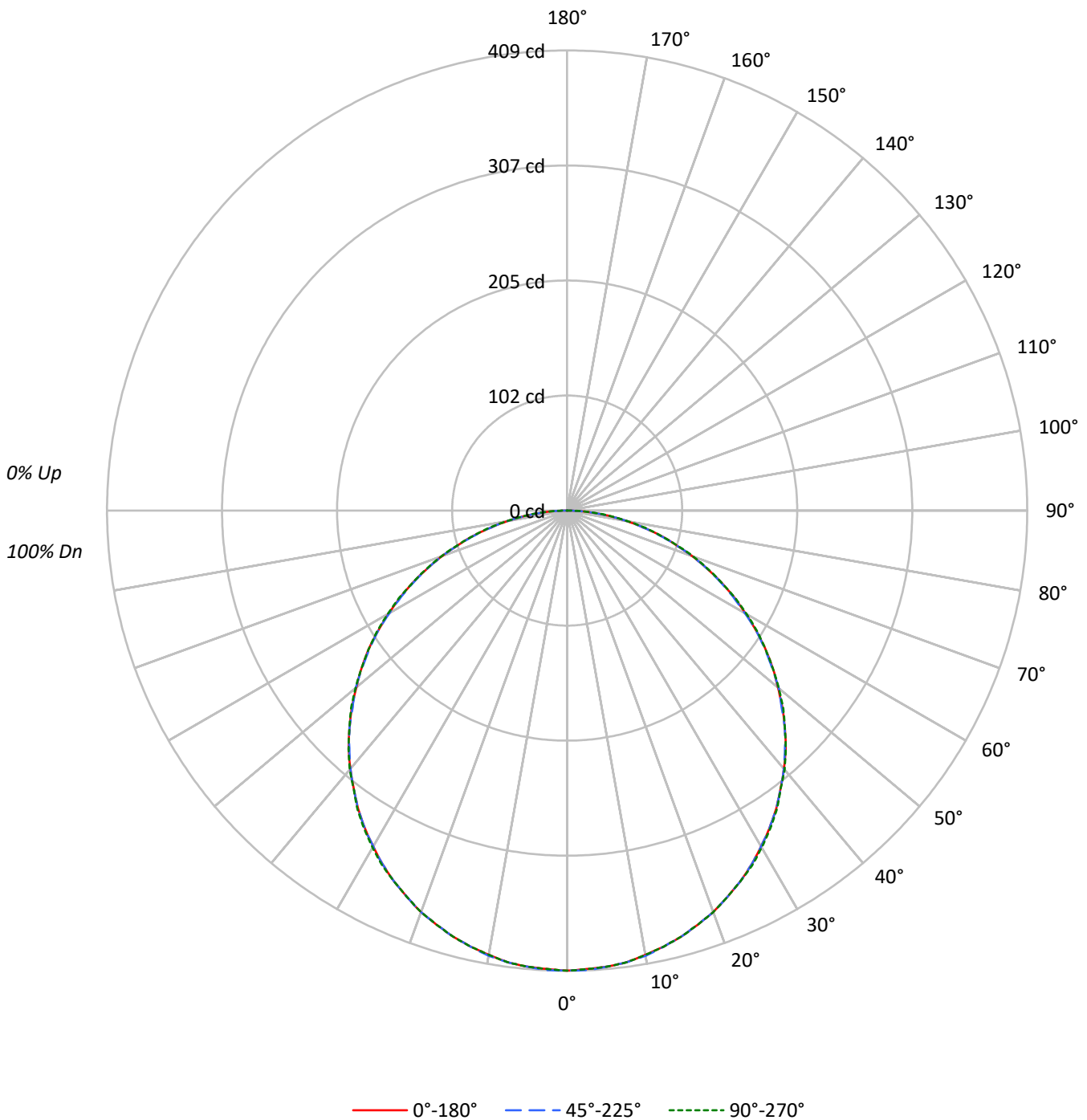
Lumens per Lamp: N/A
Luminaire Lumens: 1190.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.52' x L: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 15.7
Input Voltage (V): NR
Input Current (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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CATALOG NUMBER: SMD6S12927WH

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°	16225	16225	16225
5°	16208	16208	16208
10°	16153	16193	16153
15°	16099	16099	16099
20°	16038	16038	16038
25°	15928	15928	15928
30°	15798	15798	15844
35°	15680	15680	15729
40°	15524	15524	15576
45°	15353	15353	15353
50°	15093	15155	15155
55°	14908	14839	14908
60°	14555	14475	14634
65°	14206	14112	14206
70°	13725	13725	13841
75°	13216	13062	13216
80°	12362	12362	12591
85°	11427	11427	11883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	3.2
10°-20°	110.6	9.3
20°-30°	167.7	14.1
30°-40°	202.5	17.0
40°-50°	210.9	17.7
50°-60°	191.9	16.1
60°-70°	149.2	12.5
70°-80°	90.5	7.6
80°-90°	28.0	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°	316.9	26.6
0°-40°	519.5	43.7
0°-60°	922.3	77.5
0°-90°	1190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	407	407	407	407	407	39
15°	392	392	392	392	392	111
25°	364	364	364	364	364	168
35°	324	324	324	324	325	202
45°	274	273	274	274	274	211
55°	216	214	214	214	216	192
65°	151	150	150	150	151	149
75°	86	85	85	85	86	90
85°	25	24	25	25	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.9	408.9	408.9	408.9	408.9
2.5°	407.9	407.9	408.9	407.9	407.9
5°	406.9	406.9	406.9	406.9	406.9
7.5°	404.9	404.9	404.9	404.9	404.9
10°	400.9	400.9	401.9	400.9	400.9
12.5°	396.9	396.9	396.9	396.9	396.9
15°	391.9	391.9	391.9	391.9	391.9
17.5°	385.9	385.9	385.9	385.9	385.9
20°	379.8	378.8	379.8	379.8	379.8
22.5°	371.8	371.8	371.8	371.8	371.8
25°	363.8	363.8	363.8	363.8	363.8
27.5°	354.8	354.8	354.8	354.8	355.8
30°	344.8	344.8	344.8	345.8	345.8
32.5°	334.7	334.7	334.7	334.7	335.7
35°	323.7	323.7	323.7	323.7	324.7
37.5°	311.7	311.7	311.7	312.7	311.7
40°	299.7	299.7	299.7	299.7	300.7
42.5°	287.6	286.6	286.6	287.6	287.6
45°	273.6	272.6	273.6	273.6	273.6
47.5°	259.6	259.6	258.6	259.6	260.6
50°	244.5	244.5	245.5	245.5	245.5
52.5°	230.5	229.5	229.5	230.5	230.5
55°	215.5	214.5	214.5	214.5	215.5
57.5°	199.4	198.4	199.4	199.4	200.4
60°	183.4	182.4	182.4	183.4	184.4
62.5°	167.4	166.4	166.4	167.4	168.4
65°	151.3	150.3	150.3	150.3	151.3
67.5°	134.3	134.3	134.3	135.3	135.3
70°	118.3	117.3	118.3	118.3	119.3
72.5°	101.2	101.2	101.2	102.2	102.2
75°	86.2	85.2	85.2	85.2	86.2
77.5°	69.2	69.2	69.2	70.2	71.2
80°	54.1	54.1	54.1	55.1	55.1
82.5°	39.1	39.1	39.1	40.1	40.1
85°	25.1	24.1	25.1	25.1	26.1
87.5°	11.0	11.0	11.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)