

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: P406190

Luminaire Tested: **SMD12S09SWHE 3000K**

Test Date: 2020-03-28

Test Information

Test Method: LM-79-08
Report Number: P406190
Test Lab: EVERFINE
Test Date: 2020-03-28
Issue Date: 2020-03-28 16:13:16
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD12S09SWHE 3000K
Description: DL-NA1UaA26MR1-2590
Light Source: -
Ballast/Driver: -

Summary

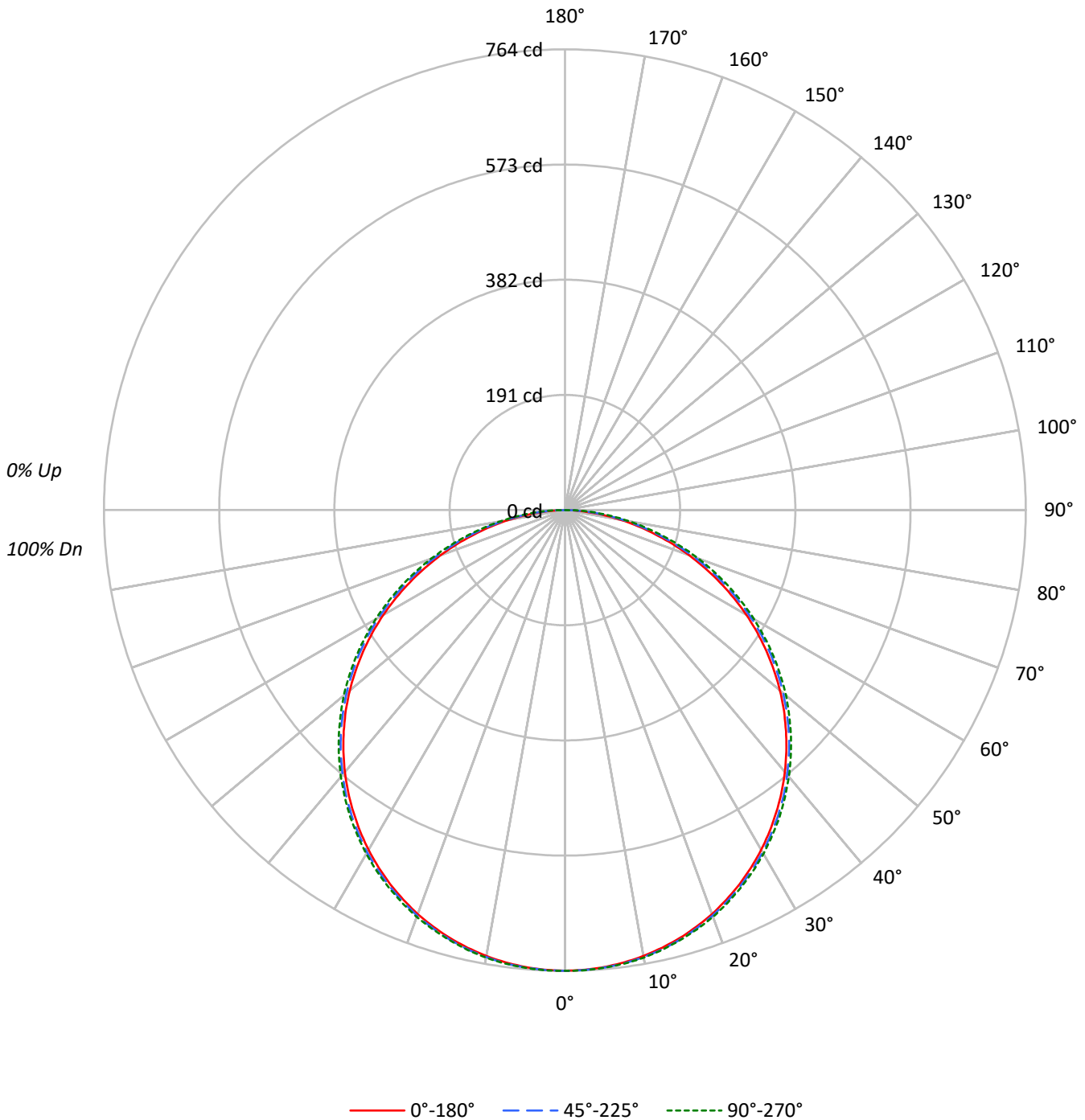
Lumens per Lamp: N/A
Luminaire Lumens: 2273.8 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.15m x L: 0.15m x H: 0m)
CIE Type: Direct

Input Watts (W): 26.2
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	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	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	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32890	32890	32890
5°	32869	32903	32925
10°	32825	32899	32956
15°	32758	32874	32909
20°	32669	32797	32893
25°	32523	32689	32808
30°	32355	32584	32733
35°	32131	32420	32620
40°	31891	32211	32458
45°	31565	31979	32272
50°	31174	31649	32051
55°	30634	31242	31685
60°	29924	30647	31190
65°	28913	29840	30553
70°	27632	28778	29684
75°	25818	27315	28530
80°	23481	25514	27274
85°	19563	23169	26281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	3.2
10°-20°	208.1	9.2
20°-30°	317.1	13.9
30°-40°	385.6	17.0
40°-50°	404.6	17.8
50°-60°	371.2	16.3
60°-70°	289.1	12.7
70°-80°	173.3	7.6
80°-90°	52.5	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°	597.6	26.3
0°-40°	983.2	43.2
0°-60°	1759.0	77.4
0°-90°	2273.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2273.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	760	762	761	762	762	72
15°	735	737	738	738	738	207
25°	685	687	688	689	691	316
35°	611	615	617	618	621	383
45°	518	523	525	527	530	400
55°	408	413	416	418	422	364
65°	284	289	293	295	300	281
75°	155	160	164	166	172	165
85°	40	43	47	49	53	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.9	763.9	763.9	763.9	763.9
2.5°	763.1	763.5	763.3	763.3	763.8
5°	760.5	761.7	761.3	761.7	761.8
7.5°	756.4	757.3	758.1	757.9	758.4
10°	750.8	751.9	752.5	753.0	753.8
12.5°	743.4	744.8	745.9	746.3	746.9
15°	734.9	736.6	737.5	737.7	738.3
17.5°	724.5	726.3	727.1	727.9	728.8
20°	713.0	714.5	715.8	716.4	717.9
22.5°	699.3	701.2	702.4	703.5	704.9
25°	684.6	686.7	688.1	689.2	690.6
27.5°	668.3	670.8	672.4	673.5	675.2
30°	650.8	653.4	655.4	656.1	658.4
32.5°	631.7	634.6	636.7	638.2	639.9
35°	611.3	614.6	616.8	618.1	620.6
37.5°	590.0	593.4	595.8	597.0	599.6
40°	567.4	570.8	573.1	574.8	577.5
42.5°	543.4	547.2	549.9	551.4	554.4
45°	518.4	522.6	525.2	527.1	530.0
47.5°	492.5	496.4	499.4	501.4	504.3
50°	465.4	469.4	472.5	474.4	478.5
52.5°	437.1	441.5	444.7	446.8	450.6
55°	408.1	412.7	416.2	418.4	422.1
57.5°	377.9	382.8	386.5	388.6	392.4
60°	347.5	352.3	355.9	358.3	362.2
62.5°	315.7	320.9	324.5	327.3	331.3
65°	283.8	288.9	292.9	295.4	299.9
67.5°	251.6	256.7	260.8	263.2	268.1
70°	219.5	224.5	228.6	231.2	235.8
72.5°	187.1	192.2	196.0	198.9	203.5
75°	155.2	160.1	164.2	166.5	171.5
77.5°	124.6	129.4	133.1	135.8	140.1
80°	94.7	99.2	102.9	105.5	110.0
82.5°	66.4	70.5	74.2	76.6	80.7
85°	39.6	43.4	46.9	49.1	53.2
87.5°	15.3	18.8	22.0	24.0	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)