

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: P406200

Luminaire Tested: **SMD14S09SWHE 3000K**

Test Date: 2020-03-28

Test Information

Test Method: LM-79-08
Report Number: P406200
Test Lab: EVERFINE
Test Date: 2020-03-28
Issue Date: 2020-03-28 16:59:20
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD14S09SWHE 3000K
Description: DL-NA1UaA26OR1-2590
Light Source: -
Ballast/Driver: -

Summary

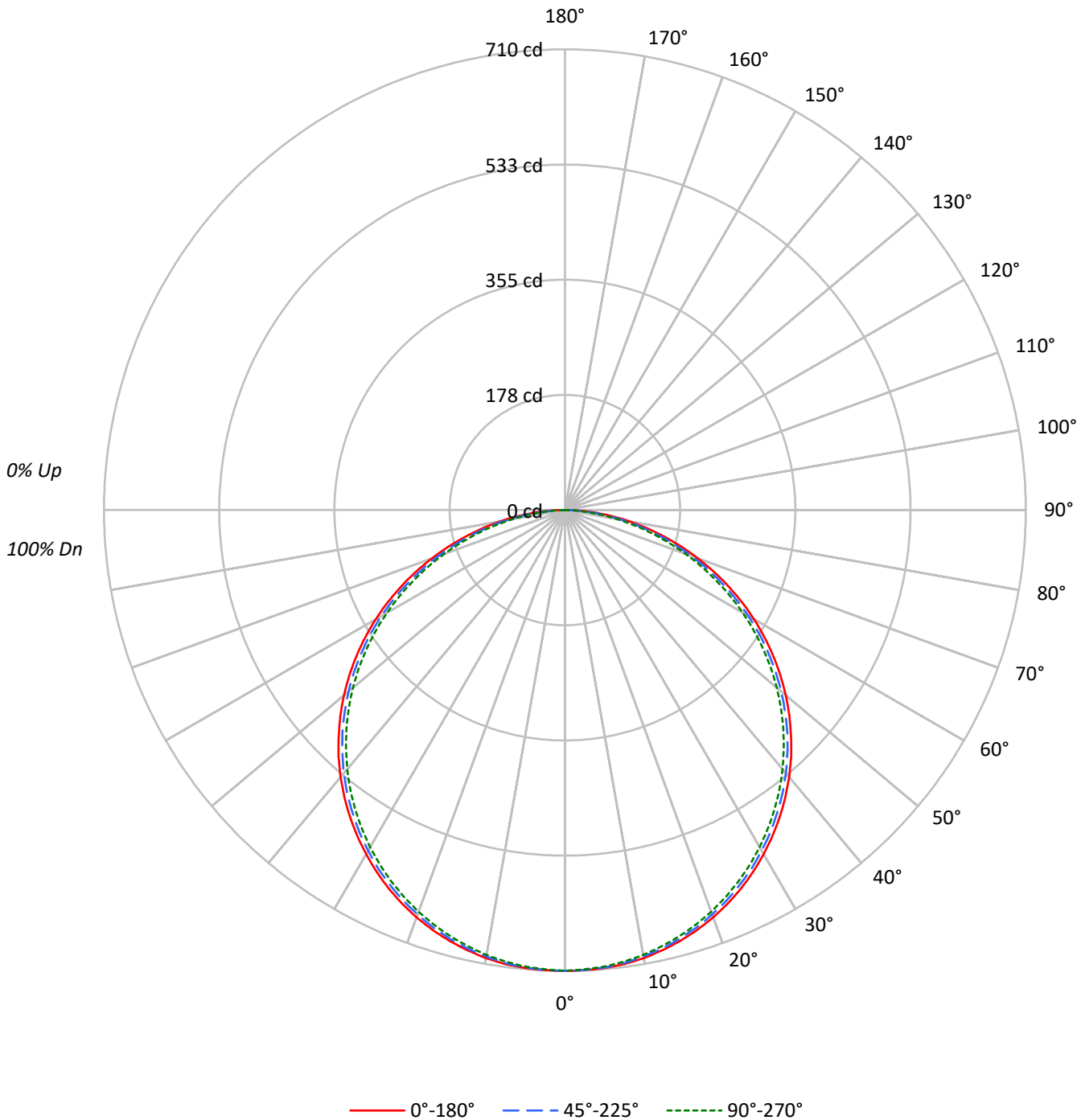
Lumens per Lamp: N/A
Luminaire Lumens: 2093.7 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.39
Luminous Opening: Rectangular (W 0.18m x L: 0.18m x H: 0m)
CIE Type: Direct

Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (A_{in}): 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	104	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	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	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22459	22459	22459
5°	22491	22462	22415
10°	22517	22433	22356
15°	22505	22397	22272
20°	22483	22325	22174
25°	22443	22247	22052
30°	22361	22139	21908
35°	22289	22019	21745
40°	22187	21865	21535
45°	22046	21674	21290
50°	21860	21407	20969
55°	21619	21073	20560
60°	21289	20631	20011
65°	20808	20037	19281
70°	20199	19247	18313
75°	19384	18186	17013
80°	18490	16814	15193
85°	17675	14699	11905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	3.2
10°-20°	193.0	9.2
20°-30°	293.8	14.0
30°-40°	356.7	17.0
40°-50°	373.4	17.8
50°-60°	341.4	16.3
60°-70°	264.7	12.6
70°-80°	157.3	7.5
80°-90°	46.1	2.2
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°	554.1	26.5
0°-40°	910.8	43.5
0°-60°	1625.6	77.6
0°-90°	2093.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	708	708	707	707	706	67
15°	687	686	684	682	680	194
25°	643	640	637	634	632	296
35°	577	574	570	566	563	361
45°	493	489	484	479	476	380
55°	392	388	382	376	373	350
65°	278	274	268	261	258	275
75°	159	154	149	142	139	168
85°	49	45	40	35	33	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.0	710.0	710.0	710.0	710.0
2.5°	709.7	709.6	709.4	709.0	708.4
5°	708.3	708.1	707.4	706.6	705.9
7.5°	705.5	704.4	704.0	702.7	701.8
10°	701.0	699.8	698.4	697.2	696.0
12.5°	694.6	693.3	692.1	690.3	688.6
15°	687.2	686.0	683.9	682.0	680.1
17.5°	678.2	676.4	674.4	672.0	670.1
20°	667.9	666.0	663.2	660.8	658.7
22.5°	656.1	653.7	651.1	648.3	646.0
25°	643.0	640.4	637.4	634.4	631.8
27.5°	628.3	625.6	622.9	619.1	616.5
30°	612.2	610.0	606.1	602.5	599.8
32.5°	595.3	592.7	589.0	585.0	582.0
35°	577.2	574.2	570.2	566.0	563.1
37.5°	557.8	554.7	550.6	546.1	543.0
40°	537.3	534.2	529.5	524.8	521.5
42.5°	515.9	512.1	507.5	502.7	499.0
45°	492.8	489.1	484.5	479.0	475.9
47.5°	469.0	465.2	460.0	454.8	451.4
50°	444.2	440.2	435.0	429.5	426.1
52.5°	418.5	414.5	409.0	403.4	399.9
55°	392.0	387.9	382.1	376.3	372.8
57.5°	364.3	360.5	354.8	348.5	345.0
60°	336.5	331.8	326.1	320.0	316.3
62.5°	307.4	303.2	297.2	290.6	287.3
65°	278.0	273.7	267.7	261.0	257.6
67.5°	248.4	244.1	237.7	231.3	228.1
70°	218.4	214.0	208.1	201.5	198.0
72.5°	188.4	184.3	178.1	171.5	168.2
75°	158.6	154.5	148.8	142.3	139.2
77.5°	129.6	125.8	120.0	113.7	110.6
80°	101.5	97.6	92.3	86.2	83.4
82.5°	74.8	71.0	65.8	59.9	57.1
85°	48.7	45.2	40.5	35.0	32.8
87.5°	24.6	21.6	17.3	12.6	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)