

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: P406201

Luminaire Tested: **SMD14S09SWHE 3500K**

Test Date: 2020-03-28

**Test Information**

Test Method: LM-79-08  
Report Number: P406201  
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 3500K  
Description: DL-NA1UaA26OR1-2590  
Light Source: -  
Ballast/Driver: -

**Summary**

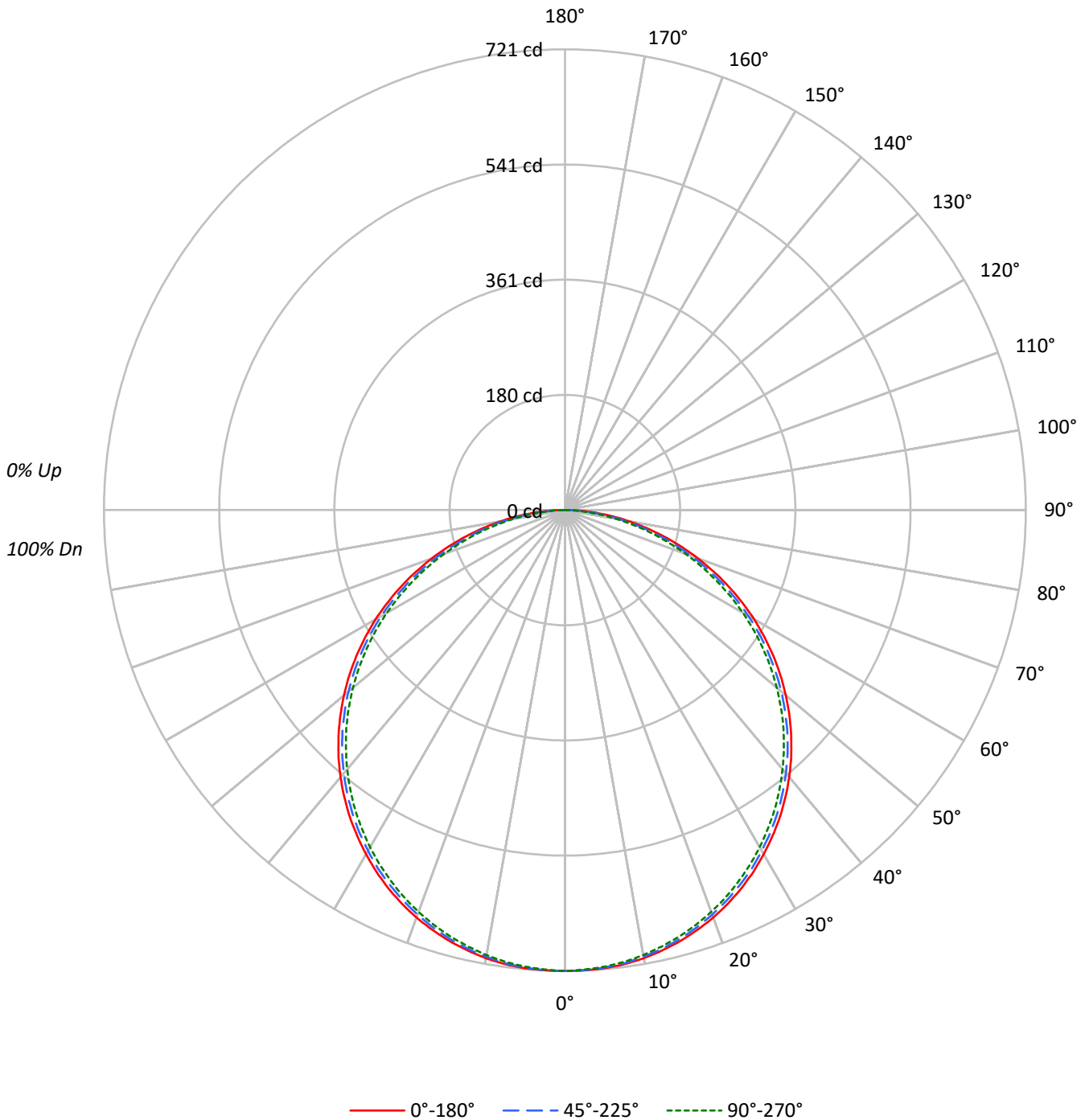
Lumens per Lamp: N/A  
Luminaire Lumens: 2126.9 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 0.18m x L: 0.18m x H: 0m)  
CIE Type: Direct

Input Watts (W): 26.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	22817	22817	22817
5°	22847	22818	22770
10°	22873	22790	22709
15°	22862	22754	22626
20°	22840	22679	22527
25°	22799	22600	22401
30°	22716	22489	22255
35°	22645	22370	22089
40°	22538	22212	21877
45°	22395	22019	21630
50°	22209	21747	21304
55°	21961	21409	20885
60°	21624	20960	20327
65°	21137	20352	19588
70°	20523	19552	18599
75°	19690	18480	17282
80°	18781	17087	15429
85°	17966	14917	12086



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	3.2
10°-20°	196.1	9.2
20°-30°	298.5	14.0
30°-40°	362.4	17.0
40°-50°	379.4	17.8
50°-60°	346.8	16.3
60°-70°	268.8	12.6
70°-80°	159.8	7.5
80°-90°	46.8	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°	562.9	26.5
0°-40°	925.2	43.5
0°-60°	1651.4	77.6
0°-90°	2126.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2126.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	720	719	719	718	717	68
15°	698	697	695	693	691	197
25°	653	651	648	644	642	301
35°	586	583	579	575	572	367
45°	501	497	492	487	484	386
55°	398	394	388	382	379	356
65°	282	278	272	265	262	279
75°	161	157	151	145	141	171
85°	50	46	41	36	33	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	721.3	721.3	721.3	721.3	721.3
2.5°	721.0	720.9	720.7	720.3	719.6
5°	719.5	719.3	718.6	717.8	717.1
7.5°	716.7	715.6	715.2	713.9	712.9
10°	712.1	710.9	709.5	708.3	707.0
12.5°	705.6	704.3	703.1	701.3	699.5
15°	698.1	696.9	694.8	692.8	690.9
17.5°	689.0	687.1	685.1	682.7	680.7
20°	678.5	676.6	673.7	671.3	669.2
22.5°	666.5	664.1	661.4	658.6	656.3
25°	653.2	650.6	647.5	644.5	641.8
27.5°	638.3	635.5	632.8	628.9	626.3
30°	621.9	619.7	615.7	612.1	609.3
32.5°	604.7	602.1	598.3	594.3	591.2
35°	586.4	583.3	579.3	575.0	572.0
37.5°	566.7	563.5	559.3	554.8	551.6
40°	545.8	542.7	537.9	533.1	529.8
42.5°	524.1	520.2	515.6	510.7	506.9
45°	500.6	496.9	492.2	486.6	483.5
47.5°	476.4	472.6	467.3	462.0	458.6
50°	451.3	447.2	441.9	436.3	432.9
52.5°	425.1	421.1	415.5	409.8	406.2
55°	398.2	394.1	388.2	382.3	378.7
57.5°	370.1	366.2	360.4	354.0	350.5
60°	341.8	337.1	331.3	325.1	321.3
62.5°	312.3	308.0	301.9	295.2	291.9
65°	282.4	278.0	271.9	265.1	261.7
67.5°	252.3	248.0	241.5	235.0	231.7
70°	221.9	217.4	211.4	204.7	201.1
72.5°	191.4	187.2	180.9	174.2	170.9
75°	161.1	157.0	151.2	144.6	141.4
77.5°	131.7	127.8	121.9	115.5	112.4
80°	103.1	99.1	93.8	87.6	84.7
82.5°	76.0	72.1	66.8	60.9	58.0
85°	49.5	45.9	41.1	35.6	33.3
87.5°	25.0	21.9	17.6	12.8	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)