

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: P406188

Luminaire Tested: **SMD12R09SWHE 5000K**

Test Date: 2020-03-28

**Test Information**

Test Method: LM-79-08  
Report Number: P406188  
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: SMD12R09SWHE 5000K  
Description: DL-NA1UaA26MR1-2590  
Light Source: -  
Ballast/Driver: -

**Summary**

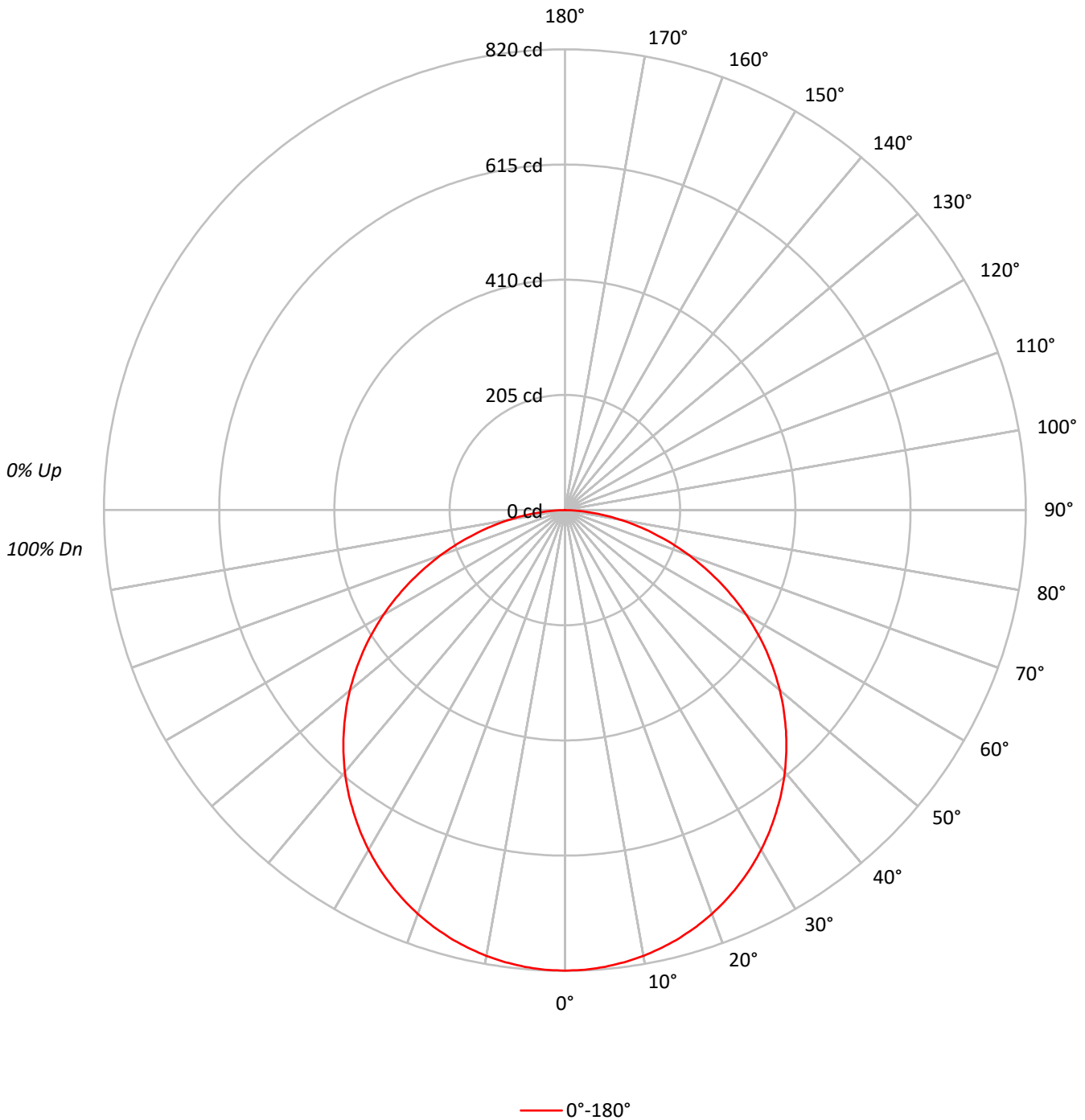
Lumens per Lamp: N/A  
Luminaire Lumens: 2396.3 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Circular (Dia: 0.15m x H: 0m)  
CIE Type: Direct

Input Watts (W): 26.2  
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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	44936
5°	44904
10°	44844
15°	44756
20°	44635
25°	44434
30°	44203
35°	43895
40°	43567
45°	43128
50°	42591
55°	41853
60°	40885
65°	39498
70°	37747
75°	35266
80°	32075
85°	26732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	3.2
10°-20°	222.6	9.3
20°-30°	338.6	14.1
30°-40°	410.4	17.1
40°-50°	429.0	17.9
50°-60°	391.1	16.3
60°-70°	301.3	12.6
70°-80°	176.6	7.4
80°-90°	49.2	2.1
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°	638.7	26.7
0°-40°	1049.2	43.8
0°-60°	1869.3	78.0
0°-90°	2396.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	820	
5°	816	78
15°	789	223
25°	735	339
35°	656	410
45°	556	429
55°	438	391
65°	304	301
75°	166	177
85°	42	49
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	819.7
2.5°	818.8
5°	816.0
7.5°	811.6
10°	805.6
12.5°	797.7
15°	788.6
17.5°	777.4
20°	765.1
22.5°	750.4
25°	734.6
27.5°	717.1
30°	698.3
32.5°	677.8
35°	655.9
37.5°	633.1
40°	608.8
42.5°	583.1
45°	556.3
47.5°	528.5
50°	499.4
52.5°	469.0
55°	437.9
57.5°	405.5
60°	372.9
62.5°	338.8
65°	304.5
67.5°	270.0
70°	235.5
72.5°	200.8
75°	166.5
77.5°	133.7
80°	101.6
82.5°	71.2
85°	42.5
87.5°	16.4
90°	0.0

(END OF REPORT)