

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: P406184

Luminaire Tested: **SMD12R09SWHE 2700K**

Test Date: 2020-03-28

**Test Information**

Test Method: LM-79-08  
Report Number: P406184  
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 2700K  
Description: DL-NA1UaA26MR1-2590  
Light Source: -  
Ballast/Driver: -

**Summary**

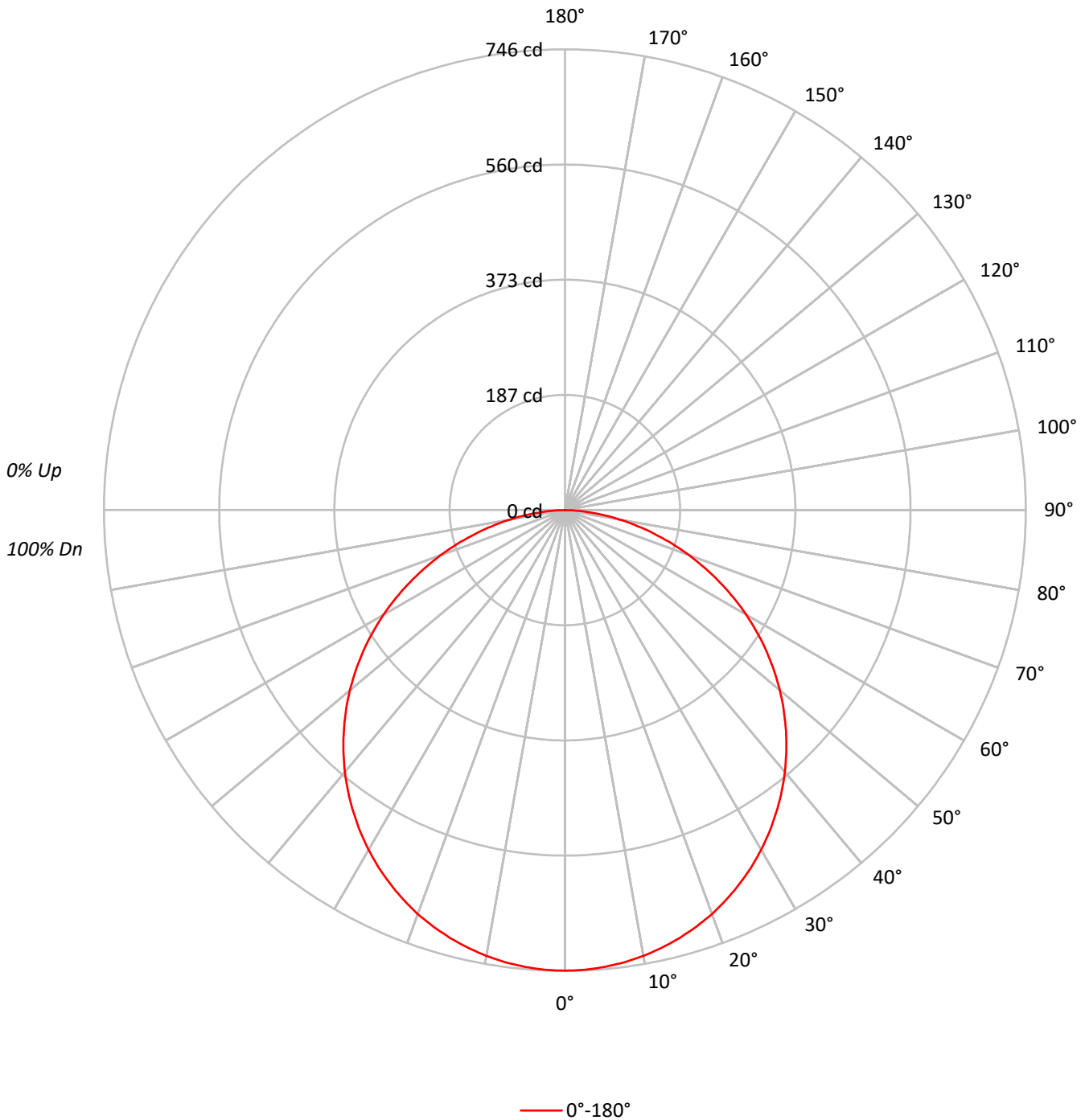
Lumens per Lamp: N/A  
Luminaire Lumens: 2180.2 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Circular (Dia: 0.15m x H: 0m)  
CIE Type: Direct

Input Watts (W): 26.2  
Input Voltage (V): NR  
Input Current (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	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°	40885
5°	40854
10°	40803
15°	40715
20°	40609
25°	40424
30°	40215
35°	39940
40°	39639
45°	39237
50°	38745
55°	38077
60°	37190
65°	35944
70°	34349
75°	32089
80°	29202
85°	24342



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.6	3.2
10°-20°	202.5	9.3
20°-30°	308.0	14.1
30°-40°	373.4	17.1
40°-50°	390.3	17.9
50°-60°	355.8	16.3
60°-70°	274.1	12.6
70°-80°	160.6	7.4
80°-90°	44.8	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°	581.1	26.7
0°-40°	954.5	43.8
0°-60°	1700.7	78.0
0°-90°	2180.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2180.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	746	
5°	742	71
15°	717	202
25°	668	308
35°	597	373
45°	506	390
55°	398	356
65°	277	274
75°	152	161
85°	39	45
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	745.8
2.5°	745.0
5°	742.4
7.5°	738.4
10°	733.0
12.5°	725.7
15°	717.4
17.5°	707.3
20°	696.1
22.5°	682.7
25°	668.3
27.5°	652.4
30°	635.3
32.5°	616.7
35°	596.8
37.5°	576.0
40°	553.9
42.5°	530.5
45°	506.1
47.5°	480.8
50°	454.3
52.5°	426.7
55°	398.4
57.5°	368.9
60°	339.2
62.5°	308.2
65°	277.1
67.5°	245.6
70°	214.3
72.5°	182.7
75°	151.5
77.5°	121.6
80°	92.5
82.5°	64.8
85°	38.7
87.5°	14.9
90°	0.0

(END OF REPORT)