

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: P406197

Luminaire Tested: **SMD14R09SWHE 4000K**

Test Date: 2020-03-28

**Test Information**

Test Method: LM-79-08  
Report Number: P406197  
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: SMD14R09SWHE 4000K  
Description: DL-NA1UaA26OR1-2590  
Light Source: -  
Ballast/Driver: -

**Summary**

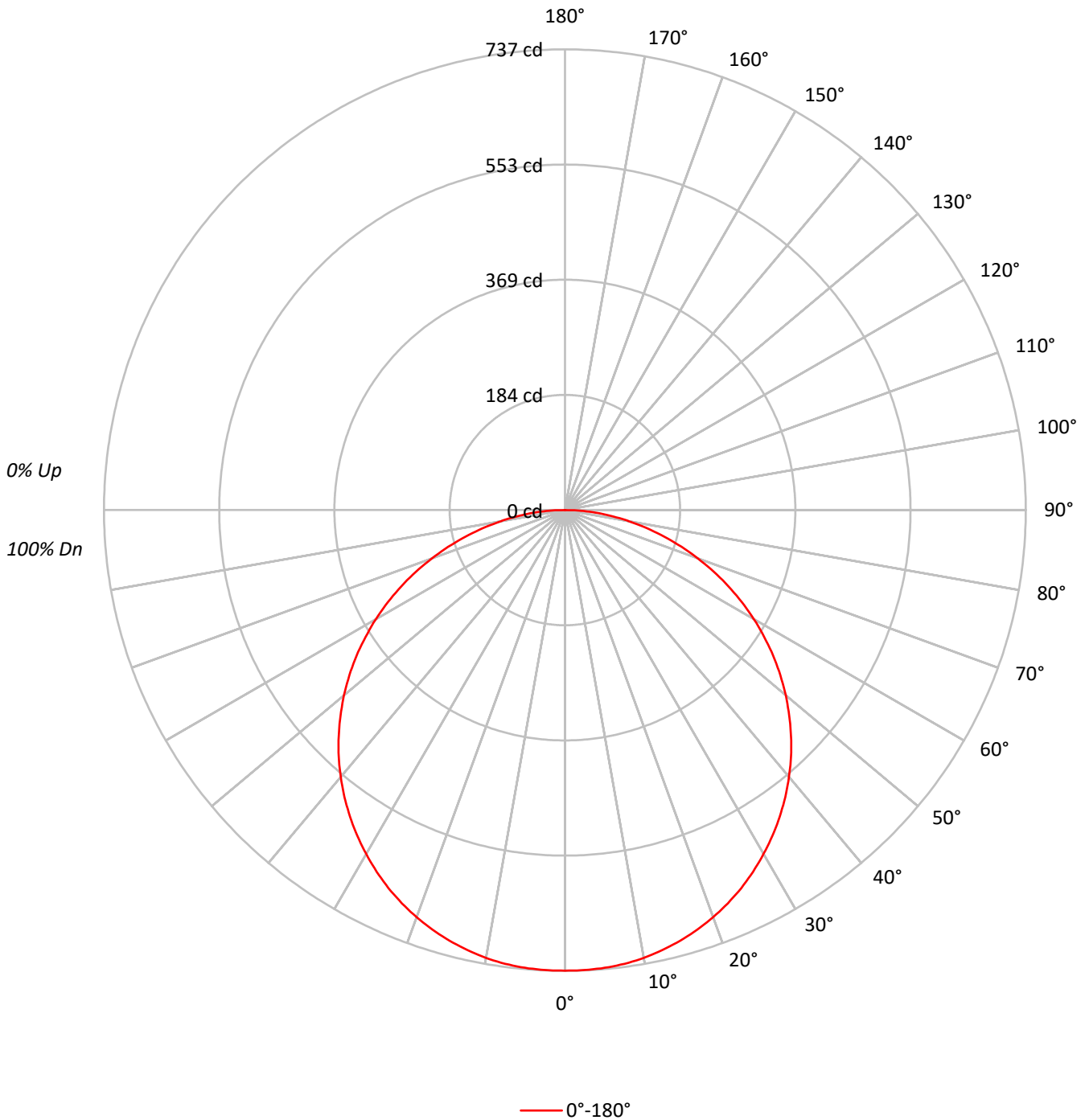
Lumens per Lamp: N/A  
Luminaire Lumens: 2227.1 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4  
Luminous Opening: Circular (Dia: 0.18m x H: 0m)  
CIE Type: Direct

Input Watts (W): 26.1  
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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°
0°	29675
5°	29716
10°	29753
15°	29734
20°	29707
25°	29655
30°	29546
35°	29452
40°	29317
45°	29129
50°	28886
55°	28565
60°	28129
65°	27494
70°	26684
75°	25614
80°	24423
85°	23337



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	3.1
10°-20°	201.3	9.0
20°-30°	307.5	13.8
30°-40°	374.7	16.8
40°-50°	394.5	17.7
50°-60°	363.3	16.3
60°-70°	285.4	12.8
70°-80°	174.2	7.8
80°-90°	56.1	2.5
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°	578.8	26.0
0°-40°	953.5	42.8
0°-60°	1711.3	76.8
0°-90°	2227.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2227.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	737	
5°	735	70
15°	713	201
25°	667	308
35°	599	375
45°	511	394
55°	407	363
65°	288	285
75°	165	174
85°	50	56
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	736.8
2.5°	736.5
5°	735.0
7.5°	732.1
10°	727.5
12.5°	720.8
15°	713.1
17.5°	703.8
20°	693.1
22.5°	680.9
25°	667.3
27.5°	652.0
30°	635.3
32.5°	617.8
35°	599.0
37.5°	578.8
40°	557.6
42.5°	535.4
45°	511.4
47.5°	486.7
50°	461.0
52.5°	434.3
55°	406.8
57.5°	378.0
60°	349.2
62.5°	319.0
65°	288.5
67.5°	257.8
70°	226.6
72.5°	195.5
75°	164.6
77.5°	134.5
80°	105.3
82.5°	77.6
85°	50.5
87.5°	25.5
90°	0.0

(END OF REPORT)