

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: P417413

Luminaire Tested: **SMD4R69SWH - 3000K**

Test Date: 2020-05-18

**Test Information**

Test Method: LM-79-08  
Report Number: P417413  
Test Lab:  
Test Date: 2020-05-18  
Issue Date: 11/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD4R69SWH - 3000K  
Description: SMD SELECTABLE CCT 3000K  
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

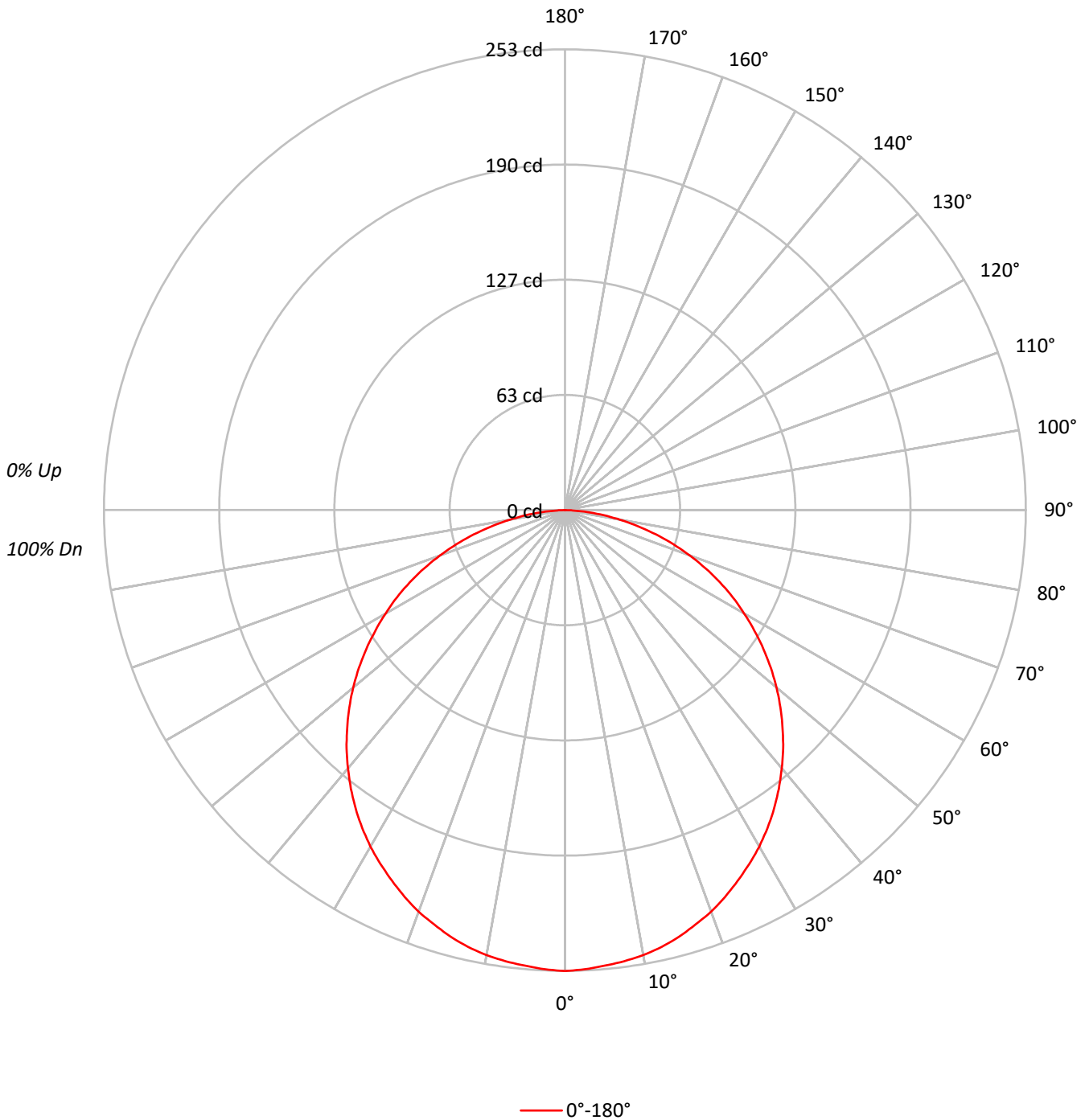
Lumens per Lamp: N/A  
Luminaire Lumens: 732.4 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.1  
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	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	47	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	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°
0°	31853
5°	31722
10°	31705
15°	31595
20°	31433
25°	31188
30°	31011
35°	30758
40°	30426
45°	30078
50°	29701
55°	29204
60°	28618
65°	27962
70°	26861
75°	25188
80°	22467
85°	17472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.9	3.3
10°-20°	68.4	9.3
20°-30°	103.6	14.1
30°-40°	125.2	17.1
40°-50°	130.4	17.8
50°-60°	118.9	16.2
60°-70°	92.8	12.7
70°-80°	54.7	7.5
80°-90°	14.5	2.0
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°	195.9	26.7
0°-40°	321.1	43.8
0°-60°	570.4	77.9
0°-90°	732.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	732.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	253	
5°	251	24
15°	242	68
25°	225	104
35°	200	125
45°	169	130
55°	133	119
65°	94	93
75°	52	55
85°	12	15
90°	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	253.1
2.5°	252.4
5°	251.1
7.5°	249.9
10°	248.1
12.5°	245.7
15°	242.5
17.5°	238.6
20°	234.7
22.5°	229.9
25°	224.6
27.5°	219.1
30°	213.4
32.5°	207.0
35°	200.2
37.5°	192.9
40°	185.2
42.5°	177.4
45°	169.0
47.5°	160.5
50°	151.7
52.5°	142.5
55°	133.1
57.5°	123.4
60°	113.7
62.5°	104.0
65°	93.9
67.5°	83.6
70°	73.0
72.5°	62.4
75°	51.8
77.5°	41.3
80°	31.0
82.5°	21.4
85°	12.1
87.5°	4.1
90°	0.7

(END OF REPORT)