

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: P417414

Luminaire Tested: **SMD4R69SWH - 3500K**

Test Date: 2020-05-18

**Test Information**

Test Method: LM-79-08  
Report Number: P417414  
Test Lab:  
Test Date: 2020-05-18  
Issue Date: 11/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD4R69SWH - 3500K  
Description: SMD SELECTABLE CCT 3500K  
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

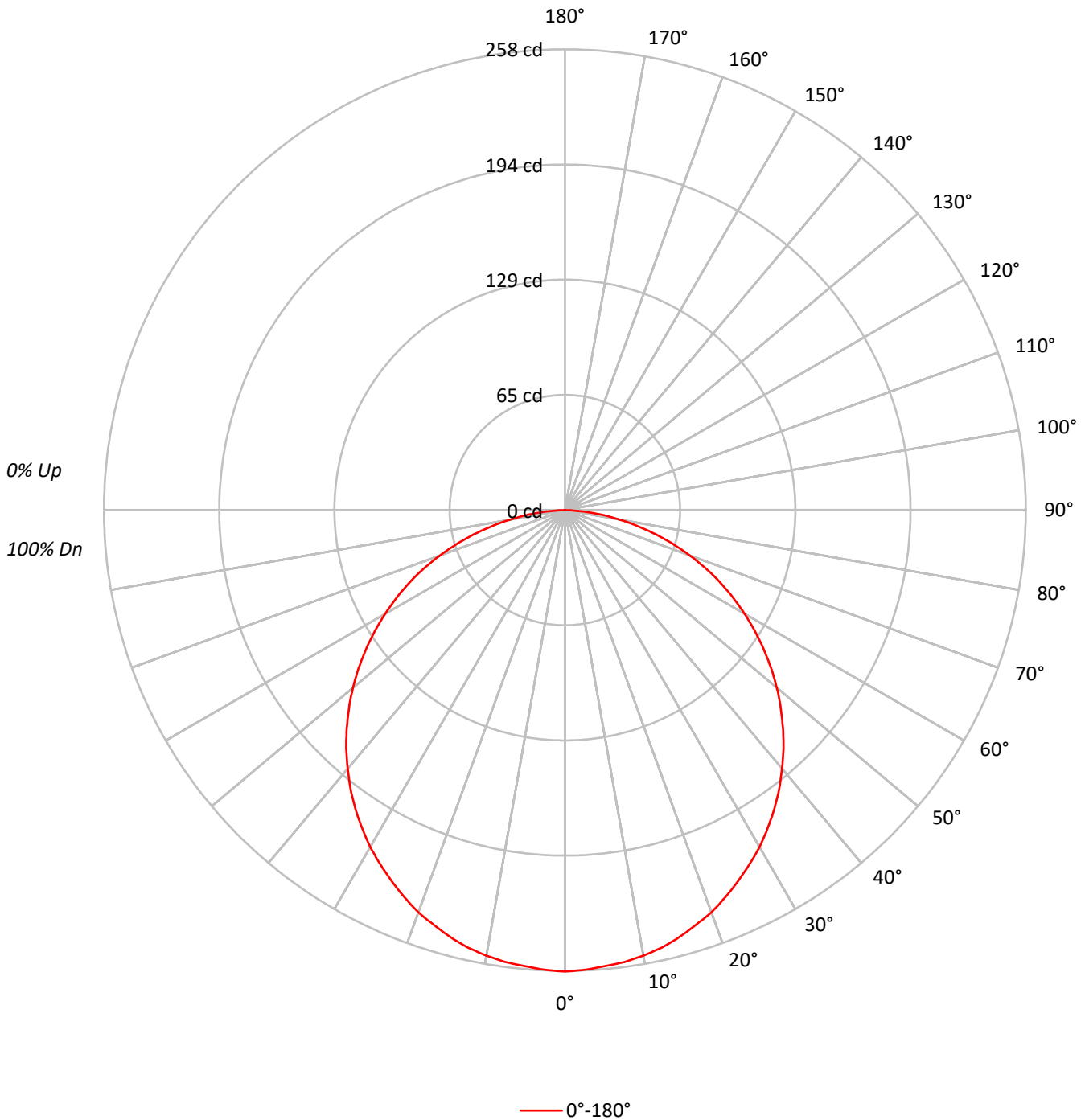
Lumens per Lamp: N/A  
Luminaire Lumens: 747.8 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.38  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	91	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°	32520
5°	32391
10°	32370
15°	32260
20°	32102
25°	31841
30°	31665
35°	31403
40°	31066
45°	30719
50°	30327
55°	29818
60°	29222
65°	28558
70°	27450
75°	25722
80°	22974
85°	17761



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.4	3.3
10°-20°	69.9	9.3
20°-30°	105.8	14.1
30°-40°	127.8	17.1
40°-50°	133.2	17.8
50°-60°	121.5	16.2
60°-70°	94.7	12.7
70°-80°	55.9	7.5
80°-90°	14.7	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°	200.0	26.7
0°-40°	327.8	43.8
0°-60°	582.5	77.9
0°-90°	747.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	747.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	258	
5°	256	24
15°	248	70
25°	229	106
35°	204	128
45°	173	133
55°	136	121
65°	96	95
75°	53	56
85°	12	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	258.4
2.5°	257.7
5°	256.4
7.5°	255.2
10°	253.3
12.5°	250.9
15°	247.6
17.5°	243.6
20°	239.7
22.5°	234.7
25°	229.3
27.5°	223.7
30°	217.9
32.5°	211.3
35°	204.4
37.5°	197.0
40°	189.1
42.5°	181.2
45°	172.6
47.5°	163.9
50°	154.9
52.5°	145.5
55°	135.9
57.5°	126.1
60°	116.1
62.5°	106.2
65°	95.9
67.5°	85.4
70°	74.6
72.5°	63.7
75°	52.9
77.5°	42.1
80°	31.7
82.5°	21.8
85°	12.3
87.5°	4.2
90°	0.0

(END OF REPORT)