

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: P417416

Luminaire Tested: **SMD4R69SWH - 5000K**

Test Date: 2020-05-18

**Test Information**

Test Method: LM-79-08  
Report Number: P417416  
Test Lab:  
Test Date: 2020-05-18  
Issue Date: 11/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD4R69SWH - 5000K  
Description: SMD SELECTABLE CCT 5000K  
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

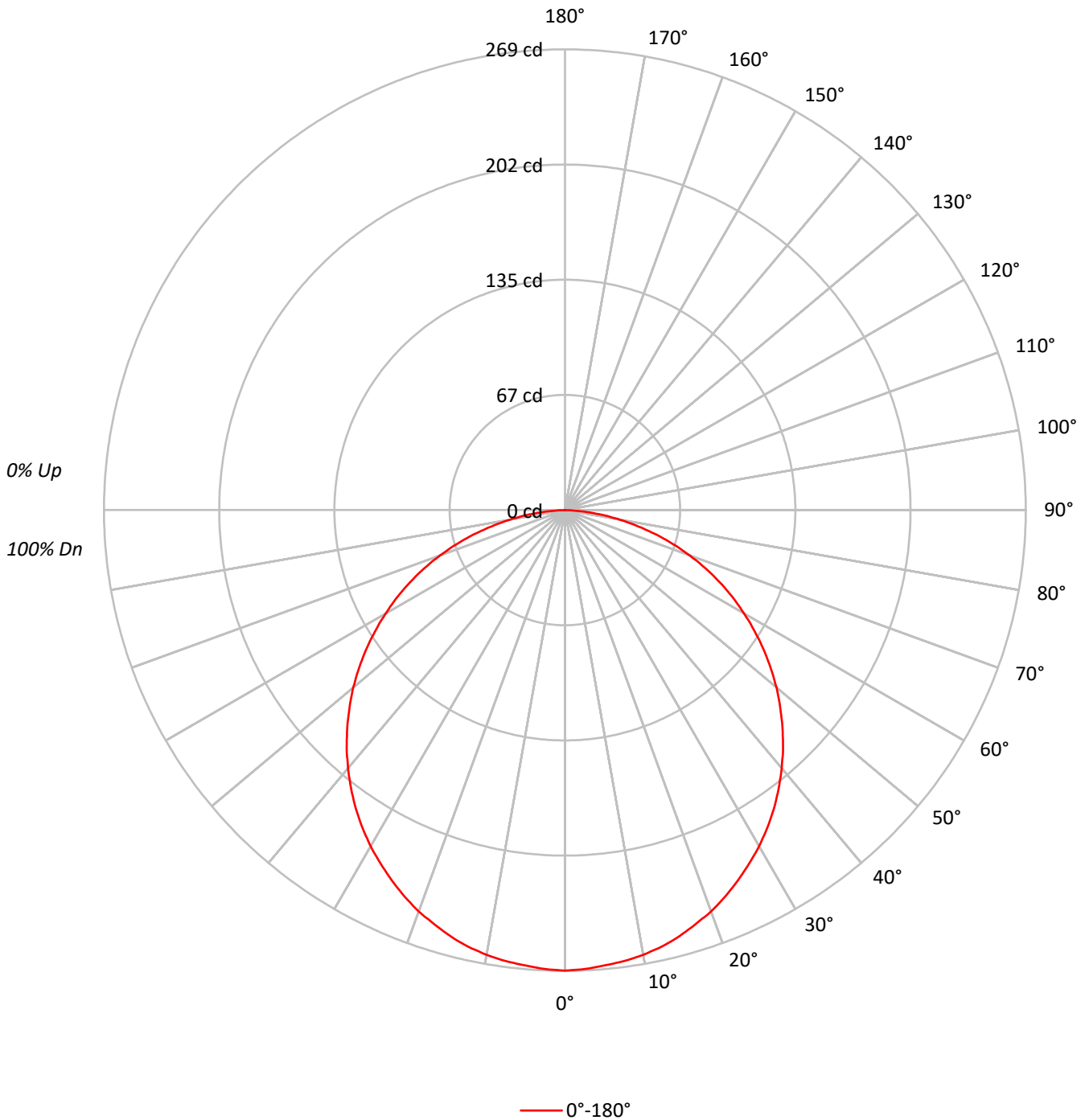
Lumens per Lamp: N/A  
Luminaire Lumens: 778.2 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.38  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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°	33841
5°	33705
10°	33686
15°	33576
20°	33401
25°	33146
30°	32944
35°	32678
40°	32331
45°	31965
50°	31561
55°	31047
60°	30405
65°	29689
70°	28554
75°	26792
80°	23916
85°	18483



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.4	3.3
10°-20°	72.7	9.3
20°-30°	110.1	14.1
30°-40°	133.0	17.1
40°-50°	138.6	17.8
50°-60°	126.4	16.2
60°-70°	98.6	12.7
70°-80°	58.1	7.5
80°-90°	15.3	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°	208.1	26.7
0°-40°	341.2	43.8
0°-60°	606.1	77.9
0°-90°	778.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	269	
5°	267	25
15°	258	73
25°	239	110
35°	213	133
45°	180	139
55°	142	126
65°	100	99
75°	55	58
85°	13	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	268.9
2.5°	268.2
5°	266.8
7.5°	265.6
10°	263.6
12.5°	261.1
15°	257.7
17.5°	253.5
20°	249.4
22.5°	244.3
25°	238.7
27.5°	232.8
30°	226.7
32.5°	219.9
35°	212.7
37.5°	205.0
40°	196.8
42.5°	188.5
45°	179.6
47.5°	170.5
50°	161.2
52.5°	151.4
55°	141.5
57.5°	131.2
60°	120.8
62.5°	110.5
65°	99.7
67.5°	88.9
70°	77.6
72.5°	66.3
75°	55.1
77.5°	43.8
80°	33.0
82.5°	22.7
85°	12.8
87.5°	4.4
90°	0.0

(END OF REPORT)