

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: P579667

Luminaire Tested: **SMD12R209SWHE-EM - 4000K**

Issue Date: 11/23/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2110240B001)  
Test Lab:  
Issue Date: 11/23/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD12R209SWHE-EM - 4000K  
Description: SMD SELECTABLE CCT 4000K  
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

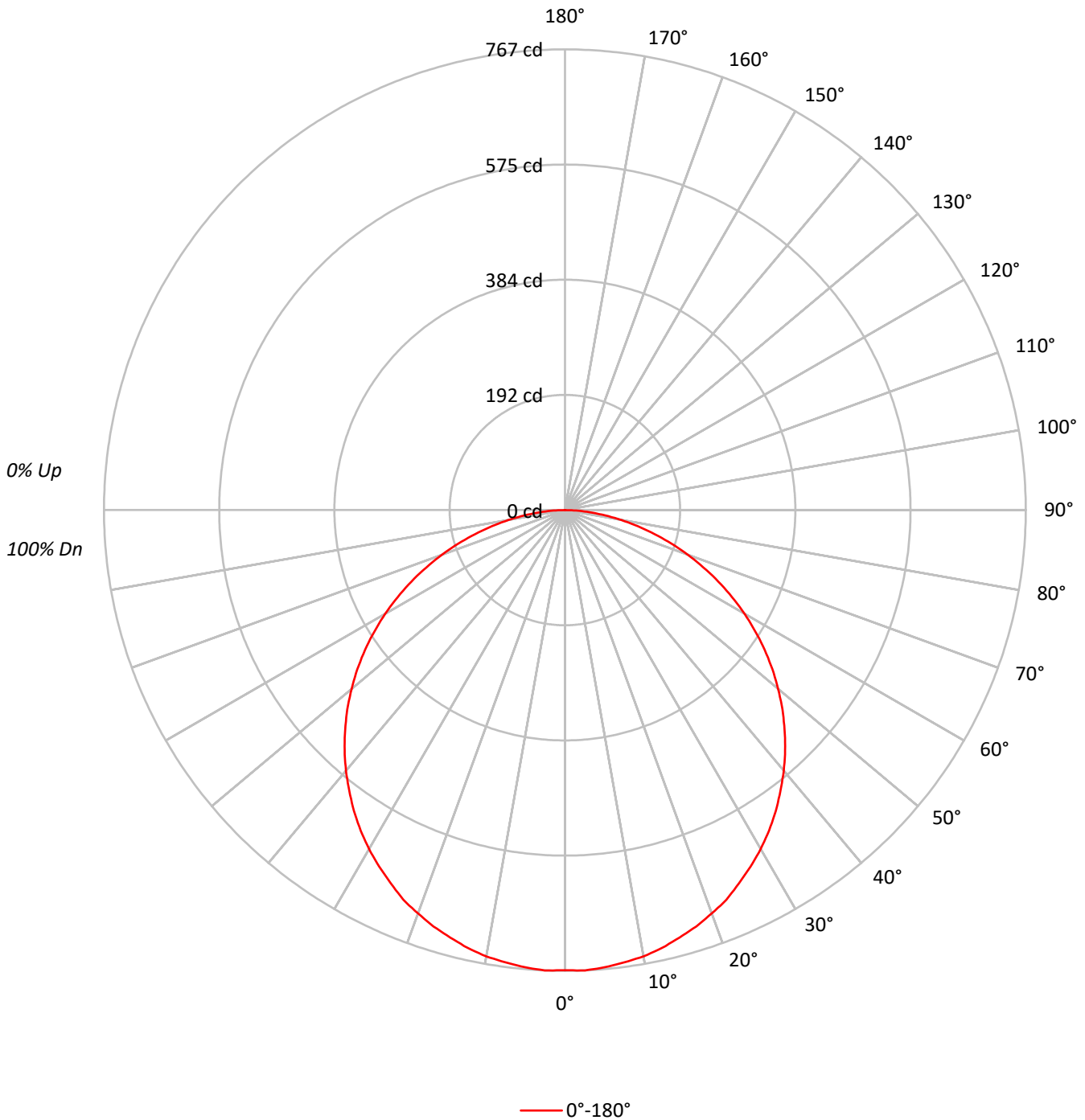
Lumens per Lamp: N/A  
Luminaire Lumens: 2231.6 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.4  
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	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	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	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	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°	10497
5°	10509
10°	10497
15°	10453
20°	10422
25°	10365
30°	10312
35°	10234
40°	10139
45°	10024
50°	9880
55°	9703
60°	9465
65°	9148
70°	8727
75°	8192
80°	7529
85°	6557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	3.3
10°-20°	208.1	9.3
20°-30°	316.2	14.2
30°-40°	382.6	17.1
40°-50°	398.9	17.9
50°-60°	362.7	16.3
60°-70°	278.9	12.5
70°-80°	164.0	7.3
80°-90°	47.8	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°	596.9	26.7
0°-40°	979.4	43.9
0°-60°	1741.0	78.0
0°-90°	2231.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	766	
5°	764	73
15°	737	208
25°	685	316
35°	612	383
45°	517	399
55°	406	363
65°	282	279
75°	155	164
85°	42	48
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	765.9
2.5°	767.1
5°	763.9
7.5°	759.3
10°	754.3
12.5°	746.7
15°	736.7
17.5°	726.7
20°	714.6
22.5°	702.2
25°	685.4
27.5°	669.1
30°	651.6
32.5°	632.4
35°	611.7
37.5°	589.4
40°	566.7
42.5°	542.6
45°	517.2
47.5°	491.0
50°	463.4
52.5°	435.2
55°	406.1
57.5°	375.8
60°	345.3
62.5°	313.6
65°	282.1
67.5°	249.8
70°	217.8
72.5°	186.1
75°	154.7
77.5°	124.3
80°	95.4
82.5°	67.7
85°	41.7
87.5°	18.6
90°	0.0

(END OF REPORT)