

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: P579666

Luminaire Tested: **SMD12R209SWHE-EM - 3500K**

Issue Date: 11/23/2021

Test Information

Test Method: LM-79-08
Report Number: P579666
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 - 3500K
Description: SMD SELECTABLE CCT 3500K
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

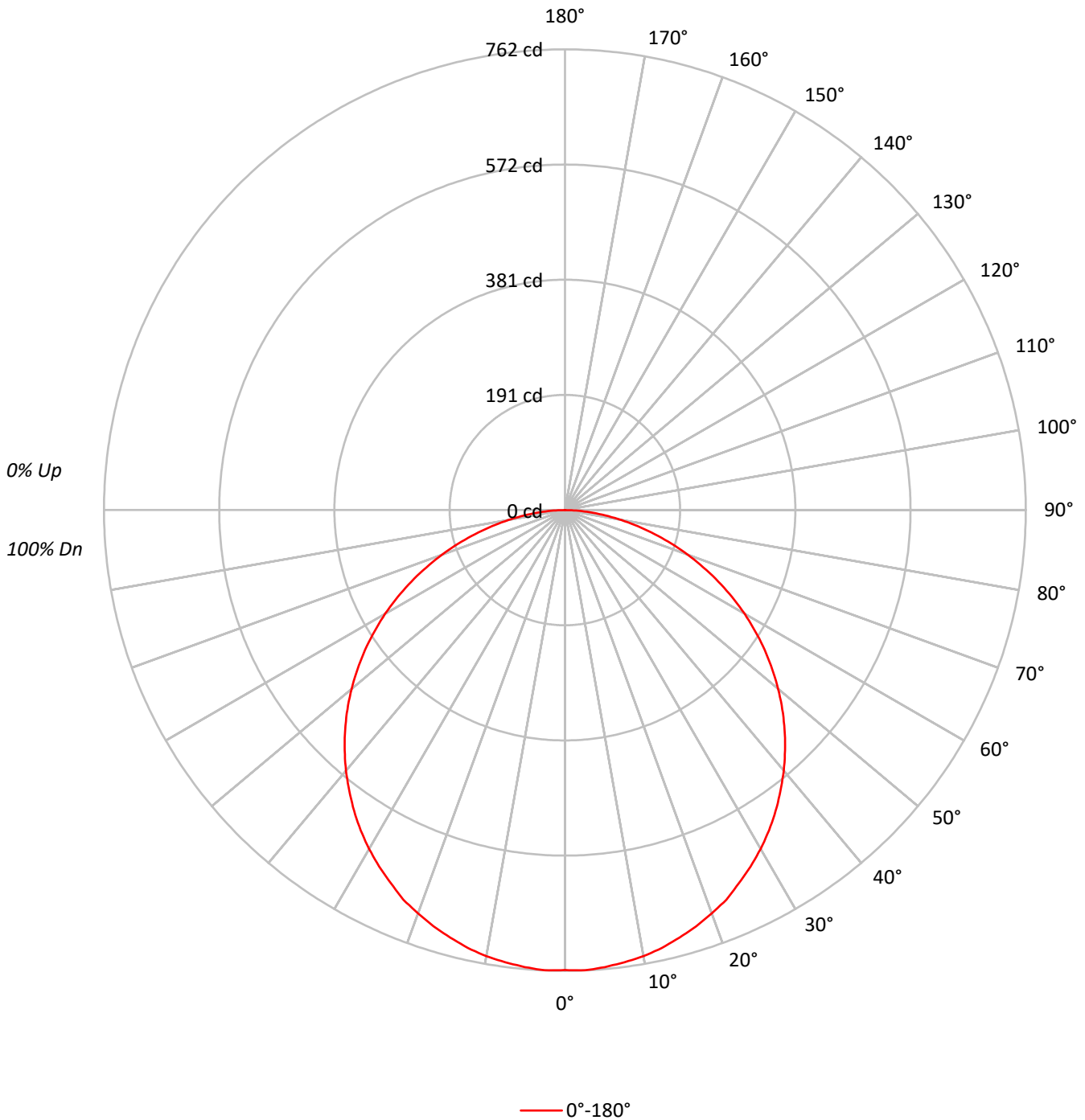
Lumens per Lamp: N/A
Luminaire Lumens: 2216.7 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (A_{in}): 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	98	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	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	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°	10427
5°	10438
10°	10426
15°	10383
20°	10352
25°	10295
30°	10242
35°	10166
40°	10071
45°	9956
50°	9814
55°	9639
60°	9402
65°	9087
70°	8671
75°	8139
80°	7482
85°	6526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	3.3
10°-20°	206.7	9.3
20°-30°	314.1	14.2
30°-40°	380.0	17.1
40°-50°	396.2	17.9
50°-60°	360.2	16.3
60°-70°	277.0	12.5
70°-80°	162.9	7.3
80°-90°	47.5	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°	592.9	26.7
0°-40°	972.9	43.9
0°-60°	1729.3	78.0
0°-90°	2216.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2216.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	761	
5°	759	72
15°	732	207
25°	681	314
35°	608	380
45°	514	396
55°	403	360
65°	280	277
75°	154	163
85°	42	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	760.8
2.5°	761.9
5°	758.7
7.5°	754.2
10°	749.2
12.5°	741.7
15°	731.8
17.5°	721.9
20°	709.8
22.5°	697.5
25°	680.8
27.5°	664.7
30°	647.2
32.5°	628.1
35°	607.6
37.5°	585.4
40°	562.9
42.5°	538.9
45°	513.7
47.5°	487.7
50°	460.3
52.5°	432.3
55°	403.4
57.5°	373.2
60°	343.0
62.5°	311.5
65°	280.2
67.5°	248.2
70°	216.4
72.5°	184.9
75°	153.7
77.5°	123.5
80°	94.8
82.5°	67.3
85°	41.5
87.5°	18.5
90°	0.0

(END OF REPORT)