

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: P579665

Luminaire Tested: **SMD12R209SWHE-EM - 3000K**

Issue Date: 11/23/2021

Test Information

Test Method: LM-79-08
Report Number: P579665
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 - 3000K
Description: SMD SELECTABLE CCT 3000K
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

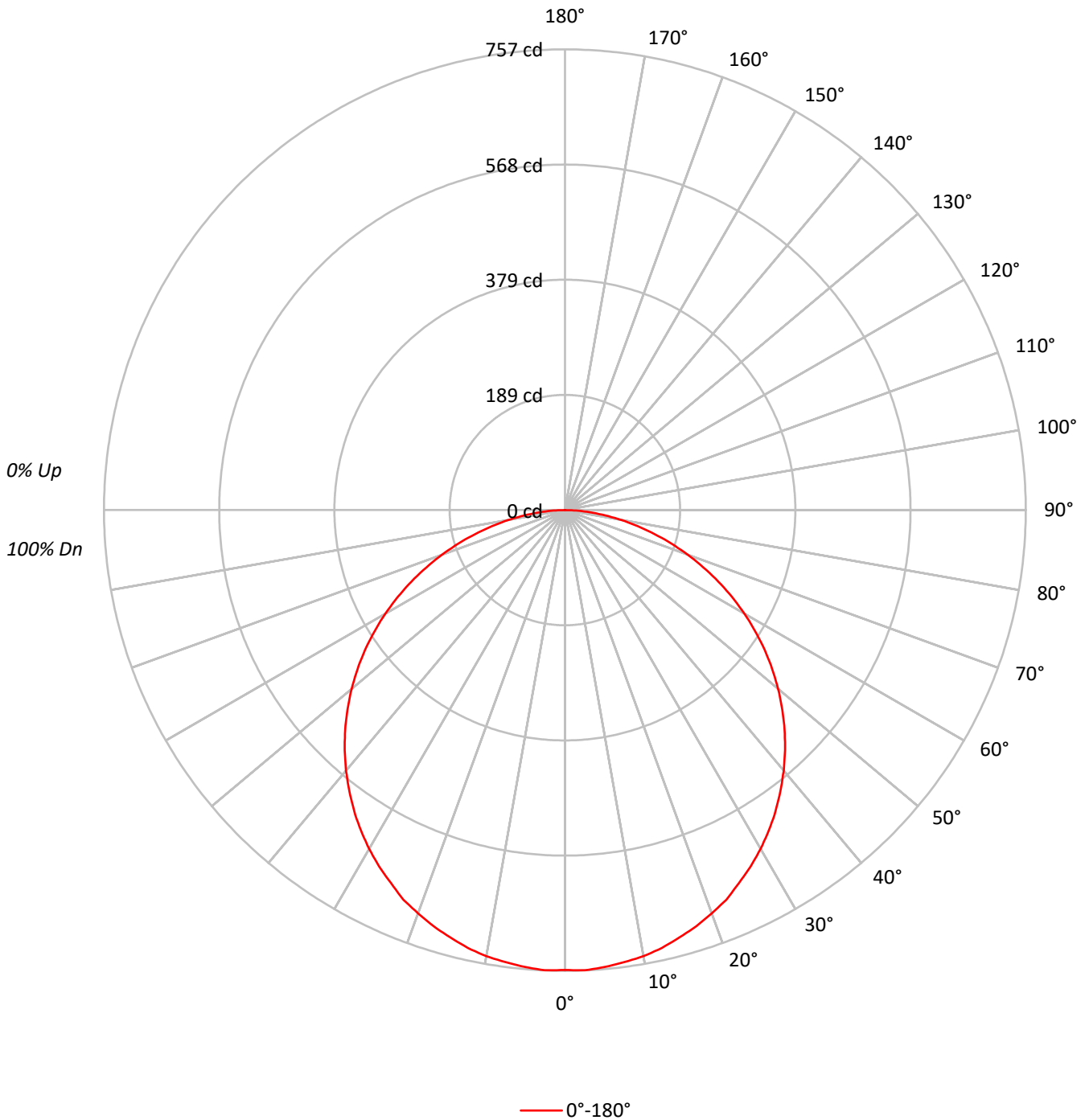
Lumens per Lamp: N/A
Luminaire Lumens: 2201.7 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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	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°	10356
5°	10368
10°	10357
15°	10314
20°	10282
25°	10225
30°	10172
35°	10097
40°	10003
45°	9891
50°	9748
55°	9574
60°	9339
65°	9025
70°	8611
75°	8081
80°	7427
85°	6479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.3
10°-20°	205.3	9.3
20°-30°	311.9	14.2
30°-40°	377.4	17.1
40°-50°	393.5	17.9
50°-60°	357.8	16.3
60°-70°	275.2	12.5
70°-80°	161.7	7.3
80°-90°	47.2	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°	588.9	26.7
0°-40°	966.3	43.9
0°-60°	1717.6	78.0
0°-90°	2201.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	756	
5°	754	72
15°	727	205
25°	676	312
35°	604	377
45°	510	394
55°	401	358
65°	278	275
75°	153	162
85°	41	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	755.6
2.5°	756.8
5°	753.6
7.5°	749.1
10°	744.2
12.5°	736.7
15°	726.9
17.5°	717.0
20°	705.0
22.5°	692.8
25°	676.2
27.5°	660.2
30°	642.8
32.5°	623.9
35°	603.5
37.5°	581.5
40°	559.1
42.5°	535.3
45°	510.3
47.5°	484.4
50°	457.2
52.5°	429.3
55°	400.7
57.5°	370.7
60°	340.7
62.5°	309.4
65°	278.3
67.5°	246.5
70°	214.9
72.5°	183.6
75°	152.6
77.5°	122.6
80°	94.1
82.5°	66.8
85°	41.2
87.5°	18.4
90°	0.0

(END OF REPORT)