

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: P579670

Luminaire Tested: **SMD12S209SWHE-EM - 3000K**

Issue Date: 11/23/2021

Test Information

Test Method: LM-79-08
Report Number: P579670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2110240A001)
Test Lab:
Issue Date: 11/23/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD12S209SWHE-EM - 3000K
Description: SMD SELECTABLE CCT 3000K
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

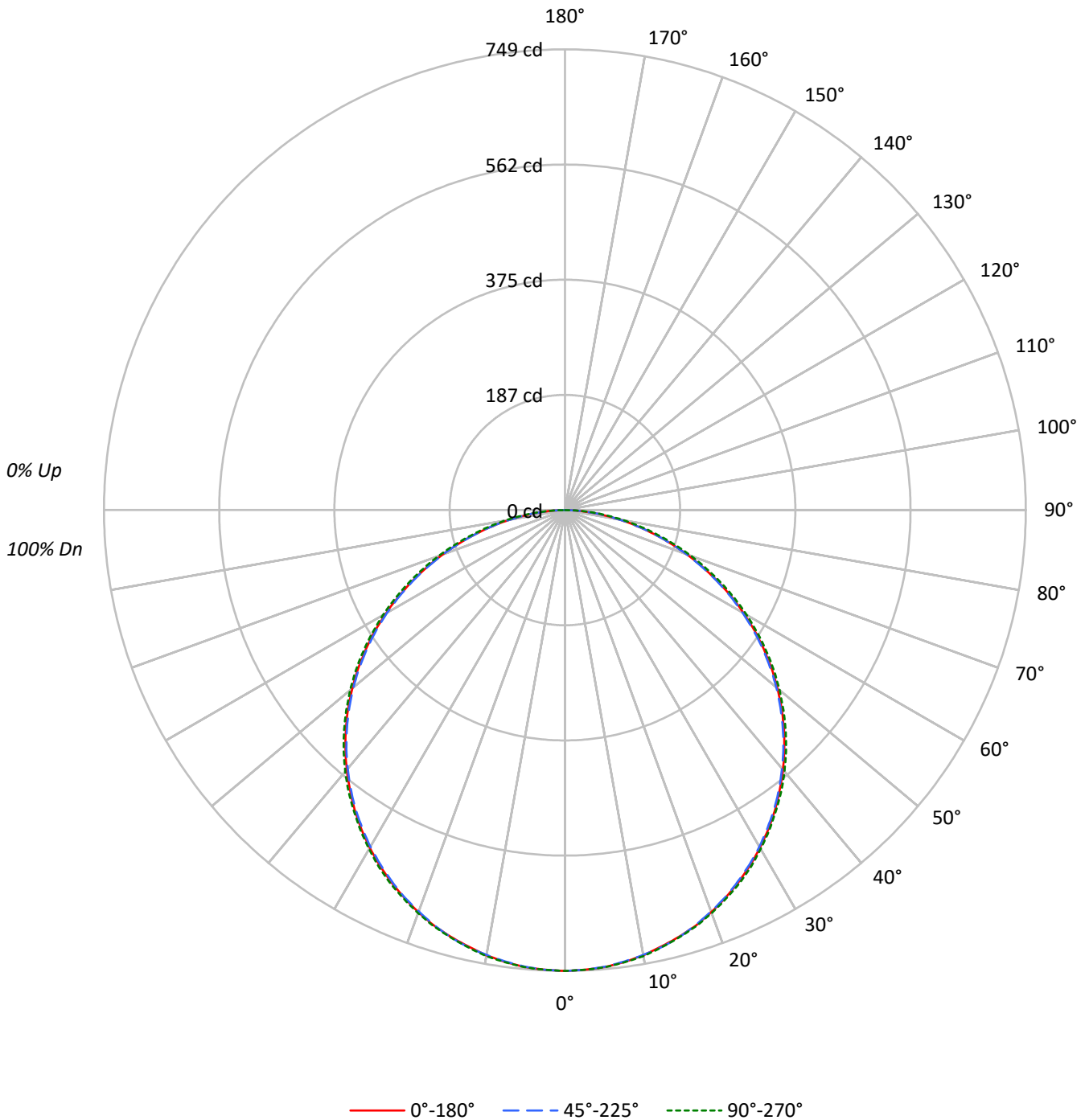
Lumens per Lamp: N/A
Luminaire Lumens: 2170.3 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.3
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	108	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	52	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	43	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°	45°	90°
0°	8064	8064	8064
5°	8056	8051	8061
10°	8031	8026	8047
15°	7999	8008	8012
20°	7969	7954	7987
25°	7926	7909	7959
30°	7880	7856	7909
35°	7820	7794	7855
40°	7748	7716	7803
45°	7663	7622	7728
50°	7551	7515	7626
55°	7413	7366	7501
60°	7223	7175	7347
65°	6974	6938	7137
70°	6650	6618	6880
75°	6226	6213	6534
80°	5672	5690	6124
85°	4903	4952	5669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.3
10°-20°	202.8	9.3
20°-30°	307.5	14.2
30°-40°	371.9	17.1
40°-50°	387.6	17.9
50°-60°	352.3	16.2
60°-70°	271.0	12.5
70°-80°	159.6	7.4
80°-90°	46.8	2.2
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°	581.1	26.8
0°-40°	953.1	43.9
0°-60°	1692.9	78.0
0°-90°	2170.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2170.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	746	745	745	746	746	71
15°	718	718	719	720	719	203
25°	667	666	666	669	670	308
35°	595	593	593	596	598	372
45°	503	501	501	503	508	388
55°	395	393	392	395	400	353
65°	274	272	272	274	280	271
75°	150	149	149	151	157	158
85°	40	39	40	41	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.2	749.2	749.2	749.2	749.2
2.5°	747.8	748.3	748.1	749.5	748.0
5°	745.6	744.7	745.1	746.0	746.0
7.5°	741.0	740.7	740.3	742.2	741.5
10°	734.8	734.7	734.3	735.9	736.2
12.5°	726.5	727.5	727.7	728.4	727.9
15°	717.8	718.0	718.6	719.5	719.0
17.5°	708.0	707.0	707.3	708.8	709.2
20°	695.7	694.3	694.4	696.2	697.3
22.5°	682.0	680.5	681.2	682.9	684.1
25°	667.4	666.2	665.9	668.6	670.1
27.5°	651.5	650.1	649.5	652.2	654.1
30°	634.0	632.1	632.1	634.8	636.3
32.5°	615.1	613.2	612.9	615.9	617.8
35°	595.1	593.0	593.1	595.6	597.8
37.5°	573.7	571.4	571.6	574.7	577.3
40°	551.4	549.2	549.1	551.9	555.3
42.5°	527.8	525.7	525.6	528.0	531.9
45°	503.4	500.8	500.7	503.2	507.7
47.5°	477.6	475.4	475.1	477.4	481.7
50°	450.9	448.8	448.8	451.0	455.4
52.5°	423.4	420.9	420.7	423.2	428.3
55°	395.0	392.7	392.5	395.1	399.7
57.5°	365.8	363.1	363.2	365.8	370.9
60°	335.5	333.4	333.3	335.7	341.3
62.5°	305.1	303.1	302.8	305.2	311.3
65°	273.8	272.0	272.4	274.5	280.2
67.5°	242.7	240.8	241.1	243.4	249.4
70°	211.3	209.7	210.3	212.5	218.6
72.5°	180.0	179.1	179.6	181.3	187.9
75°	149.7	148.7	149.4	151.3	157.1
77.5°	119.9	119.2	120.1	121.8	127.8
80°	91.5	91.0	91.8	93.8	98.8
82.5°	64.8	64.4	65.3	66.8	71.5
85°	39.7	39.4	40.1	41.2	45.9
87.5°	17.7	17.5	17.9	18.4	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)