

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: P579671

Luminaire Tested: **SMD12S209SWHE-EM - 3500K**

Issue Date: 11/23/2021

Test Information

Test Method: LM-79-08
Report Number: P579671
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 - 3500K
Description: SMD SELECTABLE CCT 3500K
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

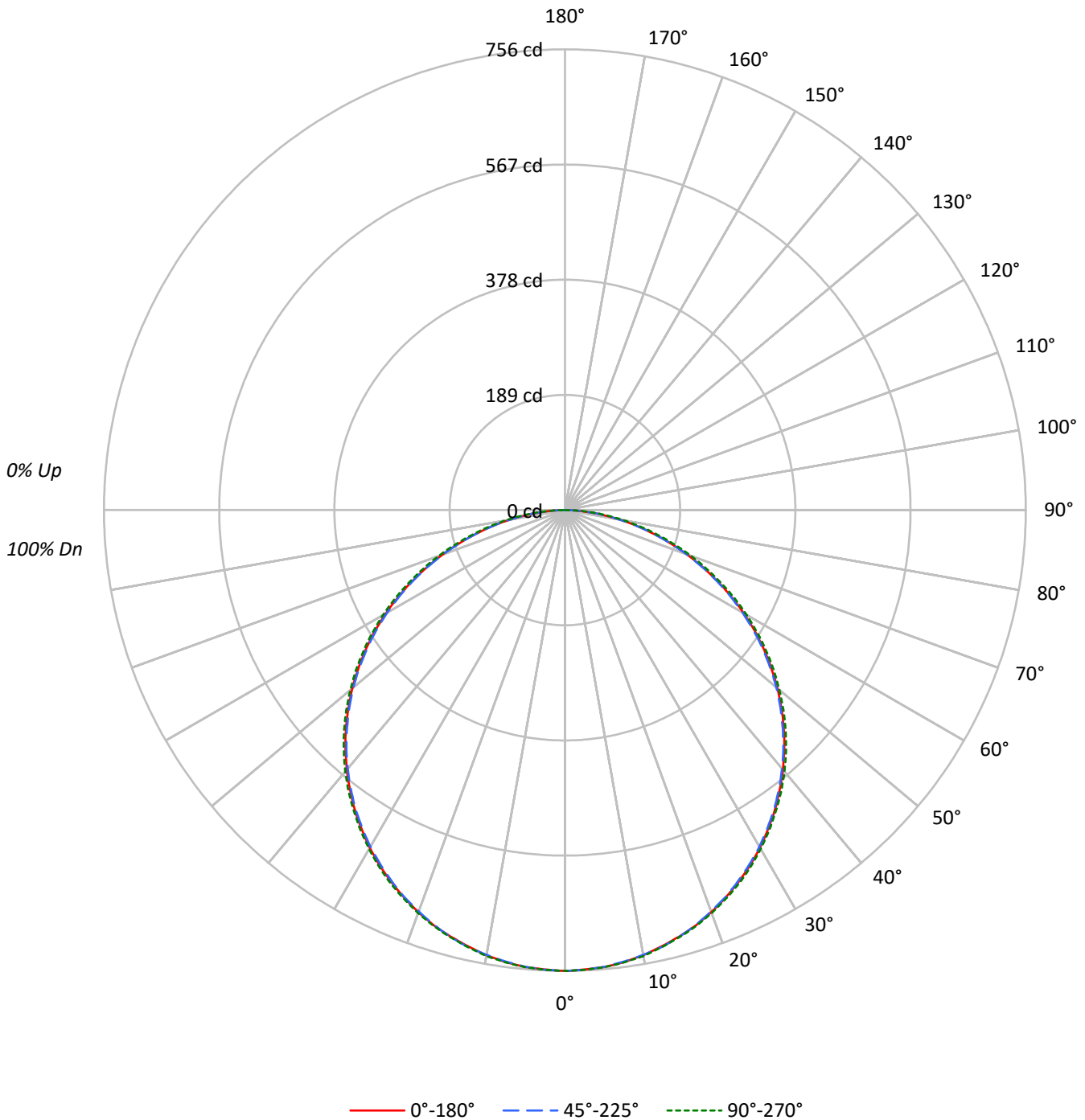
Lumens per Lamp: N/A
Luminaire Lumens: 2190.3 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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°	8139	8139	8139
5°	8130	8125	8135
10°	8106	8099	8121
15°	8071	8080	8086
20°	8042	8027	8061
25°	7999	7981	8031
30°	7953	7929	7981
35°	7892	7864	7928
40°	7818	7786	7874
45°	7733	7692	7798
50°	7619	7586	7696
55°	7482	7433	7570
60°	7289	7242	7416
65°	7037	7002	7200
70°	6713	6681	6943
75°	6284	6272	6596
80°	5728	5746	6180
85°	4952	4989	5718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.3
10°-20°	204.6	9.3
20°-30°	310.4	14.2
30°-40°	375.3	17.1
40°-50°	391.2	17.9
50°-60°	355.5	16.2
60°-70°	273.5	12.5
70°-80°	161.1	7.4
80°-90°	47.2	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°	586.5	26.8
0°-40°	961.8	43.9
0°-60°	1708.5	78.0
0°-90°	2190.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	752	752	752	753	753	71
15°	724	725	725	726	726	205
25°	674	672	672	675	676	310
35°	601	598	598	601	603	376
45°	508	505	505	508	512	392
55°	399	396	396	399	403	356
65°	276	274	275	277	283	273
75°	151	150	151	153	159	160
85°	40	40	40	42	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.1	756.1	756.1	756.1	756.1
2.5°	754.6	755.2	754.9	756.4	754.9
5°	752.4	751.5	752.0	752.8	752.9
7.5°	747.8	747.5	747.0	749.0	748.3
10°	741.6	741.4	741.0	742.7	743.0
12.5°	733.2	734.1	734.4	735.1	734.5
15°	724.3	724.6	725.1	726.1	725.6
17.5°	714.5	713.5	713.8	715.3	715.7
20°	702.1	700.7	700.8	702.6	703.7
22.5°	688.3	686.7	687.5	689.2	690.4
25°	673.5	672.4	672.0	674.7	676.2
27.5°	657.5	656.0	655.5	658.2	660.1
30°	639.9	637.9	637.9	640.6	642.1
32.5°	620.7	618.8	618.5	621.5	623.5
35°	600.6	598.4	598.5	601.1	603.3
37.5°	578.9	576.6	576.8	579.9	582.6
40°	556.4	554.2	554.1	557.0	560.4
42.5°	532.7	530.5	530.4	532.9	536.8
45°	508.0	505.4	505.3	507.8	512.3
47.5°	482.0	479.8	479.5	481.8	486.2
50°	455.0	452.9	453.0	455.1	459.6
52.5°	427.3	424.7	424.6	427.1	432.2
55°	398.7	396.3	396.1	398.7	403.4
57.5°	369.2	366.4	366.6	369.2	374.3
60°	338.6	336.5	336.4	338.8	344.5
62.5°	307.9	305.9	305.6	308.0	314.2
65°	276.3	274.5	274.9	277.0	282.7
67.5°	244.9	243.0	243.3	245.6	251.7
70°	213.3	211.6	212.3	214.4	220.6
72.5°	181.6	180.8	181.2	183.0	189.7
75°	151.1	150.1	150.8	152.7	158.6
77.5°	121.0	120.3	121.2	122.9	128.9
80°	92.4	91.9	92.7	94.6	99.7
82.5°	65.4	65.0	65.9	67.5	72.1
85°	40.1	39.8	40.4	41.6	46.3
87.5°	17.9	17.6	18.1	18.5	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)