

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: P579669

Luminaire Tested: **SMD12S209SWHE-EM - 2700K**

Issue Date: 11/23/2021

Test Information

Test Method: LM-79-08
Report Number: P579669
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 - 2700K
Description: SMD SELECTABLE CCT 2700K
Light Source: SELECTABLE CCT LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

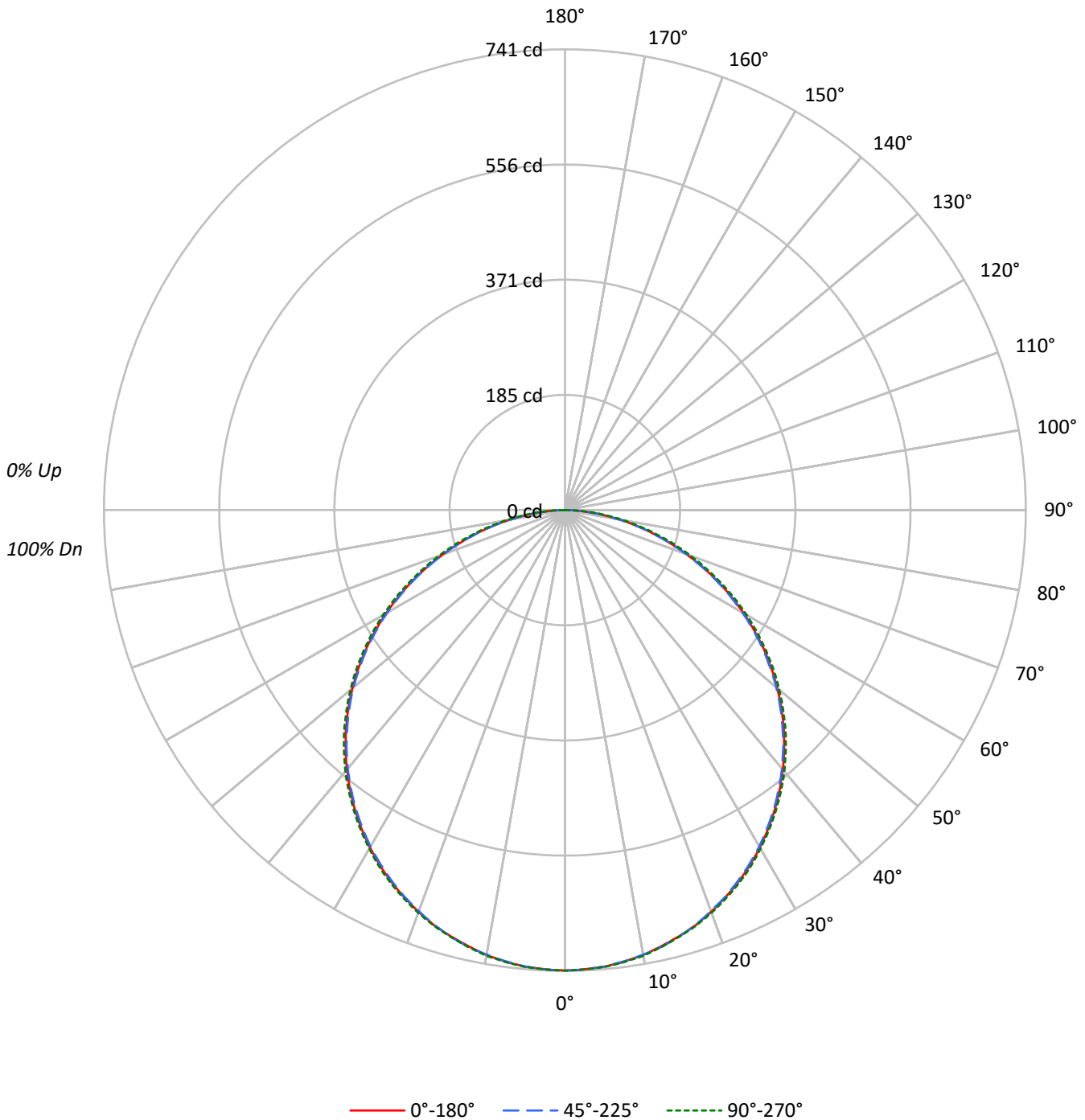
Lumens per Lamp: N/A
Luminaire Lumens: 2145.5 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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°	7972	7972	7972
5°	7963	7959	7969
10°	7940	7934	7955
15°	7906	7915	7920
20°	7879	7864	7896
25°	7836	7818	7867
30°	7791	7767	7818
35°	7730	7704	7766
40°	7659	7627	7713
45°	7575	7535	7639
50°	7464	7430	7539
55°	7328	7281	7415
60°	7141	7093	7263
65°	6892	6859	7053
70°	6574	6543	6801
75°	6155	6143	6459
80°	5610	5628	6056
85°	4854	4891	5607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.3
10°-20°	200.5	9.3
20°-30°	304.0	14.2
30°-40°	367.7	17.1
40°-50°	383.2	17.9
50°-60°	348.2	16.2
60°-70°	267.9	12.5
70°-80°	157.8	7.4
80°-90°	46.2	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°	574.5	26.8
0°-40°	942.2	43.9
0°-60°	1673.6	78.0
0°-90°	2145.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	737	736	737	737	738	70
15°	710	710	710	711	711	200
25°	660	659	658	661	662	304
35°	588	586	586	589	591	368
45°	498	495	495	497	502	384
55°	390	388	388	391	395	349
65°	271	269	269	271	277	268
75°	148	147	148	150	155	157
85°	39	39	40	41	45	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.6	740.6	740.6	740.6	740.6
2.5°	739.2	739.7	739.5	740.9	739.5
5°	737.0	736.1	736.6	737.4	737.5
7.5°	732.5	732.2	731.8	733.7	733.0
10°	726.4	726.3	725.9	727.5	727.8
12.5°	718.2	719.1	719.4	720.0	719.5
15°	709.5	709.8	710.3	711.2	710.7
17.5°	699.9	698.9	699.2	700.7	701.1
20°	687.8	686.3	686.5	688.2	689.3
22.5°	674.2	672.7	673.4	675.1	676.3
25°	659.8	658.6	658.3	660.9	662.4
27.5°	644.1	642.6	642.1	644.7	646.6
30°	626.8	624.9	624.9	627.5	629.0
32.5°	608.0	606.2	605.9	608.8	610.7
35°	588.3	586.2	586.3	588.8	591.0
37.5°	567.1	564.8	565.0	568.1	570.7
40°	545.1	542.9	542.8	545.6	548.9
42.5°	521.8	519.7	519.6	522.0	525.8
45°	497.6	495.0	495.0	497.4	501.8
47.5°	472.2	470.0	469.7	472.0	476.2
50°	445.7	443.7	443.7	445.8	450.2
52.5°	418.5	416.1	415.9	418.3	423.4
55°	390.5	388.2	388.0	390.6	395.1
57.5°	361.6	358.9	359.1	361.6	366.6
60°	331.7	329.6	329.5	331.9	337.4
62.5°	301.6	299.6	299.3	301.7	307.7
65°	270.6	268.9	269.3	271.4	276.9
67.5°	239.9	238.1	238.3	240.6	246.6
70°	208.9	207.3	207.9	210.0	216.1
72.5°	177.9	177.1	177.5	179.2	185.8
75°	148.0	147.0	147.7	149.5	155.3
77.5°	118.5	117.8	118.8	120.4	126.3
80°	90.5	90.0	90.8	92.7	97.7
82.5°	64.1	63.7	64.5	66.1	70.7
85°	39.3	39.0	39.6	40.8	45.4
87.5°	17.5	17.3	17.7	18.1	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)