

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: P579369

Luminaire Tested: **SMD6S129SWHE-EM - 4000K**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2113136A001)  
Test Lab:  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD6S129SWHE-EM - 4000K  
Description: SMD SELECTABLE CCT 4000K  
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

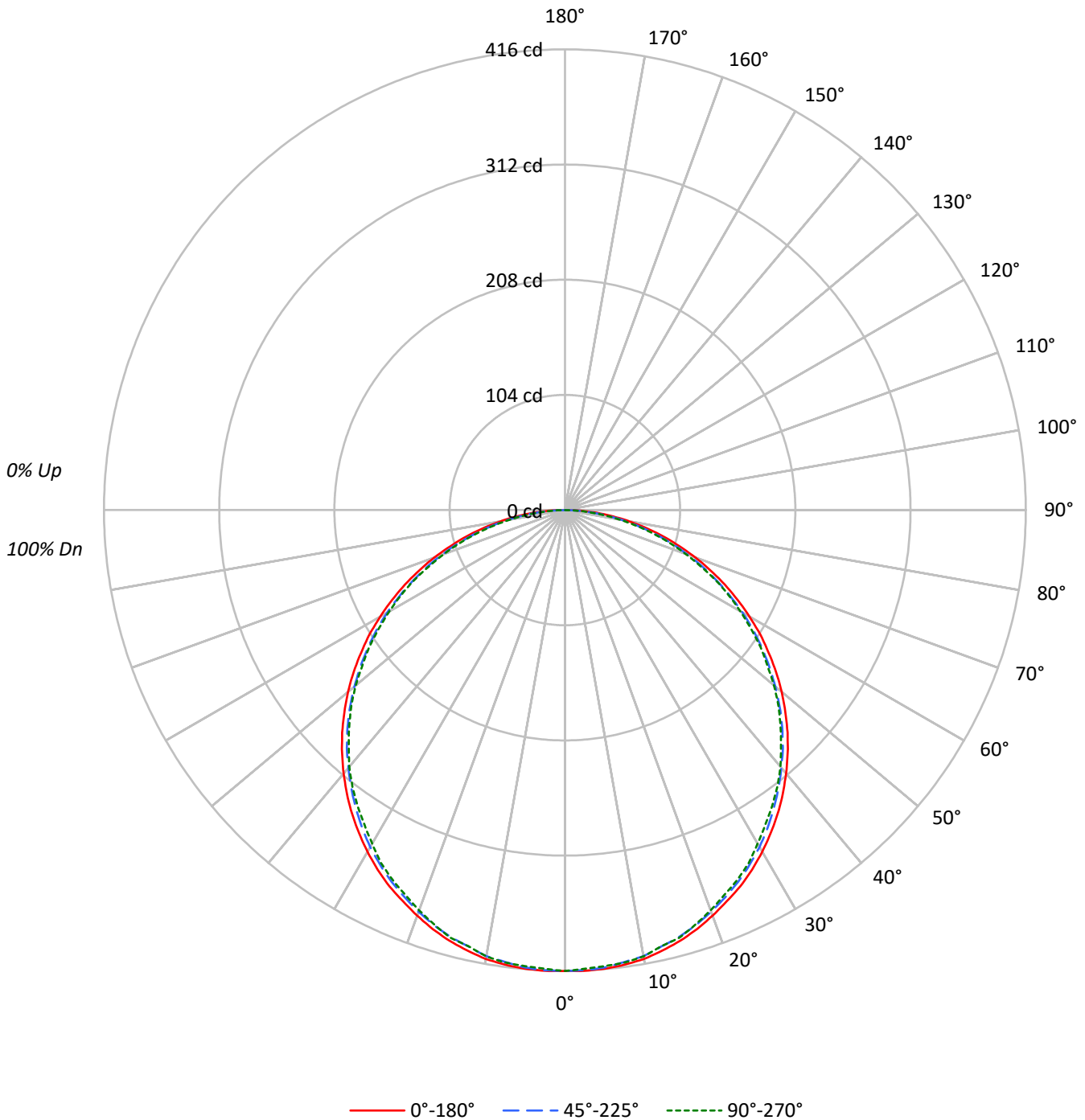
Lumens per Lamp: N/A  
Luminaire Lumens: 1208.4 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P579369  
CATALOG NUMBER: SMD6S129SWHE-EM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P579369  
 CATALOG NUMBER: SMD6S129SWHE-EM - 4000K

**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	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	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°	17915	17915	17915
5°	17962	17915	17863
10°	17991	17877	17886
15°	17946	17781	17816
20°	17856	17686	17622
25°	17805	17596	17497
30°	17714	17465	17291
35°	17603	17277	17140
40°	17457	17081	17008
45°	17305	16885	16757
50°	17107	16605	16505
55°	16860	16304	16184
60°	16568	15948	15767
65°	16219	15465	15323
70°	15799	14905	14628
75°	15305	14157	13807
80°	14728	13216	12695
85°	14474	11807	10868



TEST NUMBER: P579369  
 CATALOG NUMBER: SMD6S129SWHE-EM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.4	3.3
10°-20°	112.8	9.3
20°-30°	170.8	14.1
30°-40°	206.1	17.1
40°-50°	214.5	17.8
50°-60°	195.0	16.1
60°-70°	151.2	12.5
70°-80°	91.0	7.5
80°-90°	27.5	2.3
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°	323.0	26.7
0°-40°	529.1	43.8
0°-60°	938.6	77.7
0°-90°	1208.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1208.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	416	416	414	414	413	40
15°	403	401	399	398	400	114
25°	375	372	370	369	368	173
35°	335	332	329	327	326	209
45°	284	281	277	275	275	219
55°	225	221	217	215	216	201
65°	159	156	152	149	150	157
75°	92	89	85	83	83	97
85°	29	26	24	22	22	32
90°	0	0	0	0	0	



TEST NUMBER: P579369  
 CATALOG NUMBER: SMD6S129SWHE-EM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	416.1	416.1	416.1	416.1	416.1
2.5°	416.4	416.1	415.8	416.2	414.5
5°	415.6	415.8	414.5	414.4	413.3
7.5°	414.0	413.6	411.5	411.7	412.1
10°	411.5	410.2	408.9	407.8	409.1
12.5°	407.3	405.8	403.5	403.3	403.3
15°	402.6	400.7	398.9	398.3	399.7
17.5°	396.7	394.0	393.0	392.8	392.4
20°	389.7	387.9	386.0	385.2	384.6
22.5°	382.2	380.4	378.2	377.8	376.1
25°	374.8	372.4	370.4	368.8	368.3
27.5°	365.9	363.0	361.1	359.4	359.3
30°	356.3	353.3	351.3	349.3	347.8
32.5°	345.8	343.3	340.4	338.4	336.7
35°	334.9	331.8	328.7	326.7	326.1
37.5°	323.1	319.3	316.7	314.6	314.9
40°	310.6	306.9	303.9	301.9	302.6
42.5°	297.7	294.2	291.3	289.0	288.7
45°	284.2	280.9	277.3	275.1	275.2
47.5°	270.0	266.3	263.1	260.8	261.3
50°	255.4	252.0	247.9	245.5	246.4
52.5°	240.4	236.4	232.7	230.5	230.2
55°	224.6	221.4	217.2	214.7	215.6
57.5°	209.1	205.3	201.4	198.5	198.9
60°	192.4	188.6	185.2	182.2	183.1
62.5°	175.8	172.2	168.4	165.8	166.8
65°	159.2	155.8	151.8	149.1	150.4
67.5°	142.1	138.8	135.2	132.5	133.0
70°	125.5	121.8	118.4	115.8	116.2
72.5°	108.4	105.3	101.7	99.2	100.0
75°	92.0	88.6	85.1	83.0	83.0
77.5°	75.5	72.8	69.0	66.6	66.9
80°	59.4	56.5	53.3	51.0	51.2
82.5°	43.9	41.5	38.4	36.1	36.3
85°	29.3	26.5	23.9	21.6	22.0
87.5°	15.1	12.9	10.2	8.3	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)