

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: P406203

Luminaire Tested: **SMD14S09SWHE 5000K**

Test Date: 2020-03-28

Test Information

Test Method: LM-79-08
Report Number: P406203
Test Lab: EVERFINE
Test Date: 2020-03-28
Issue Date: 2020-03-28 16:59:20
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD14S09SWHE 5000K
Description: DL-NA1UaA26OR1-2590
Light Source: -
Ballast/Driver: -

Summary

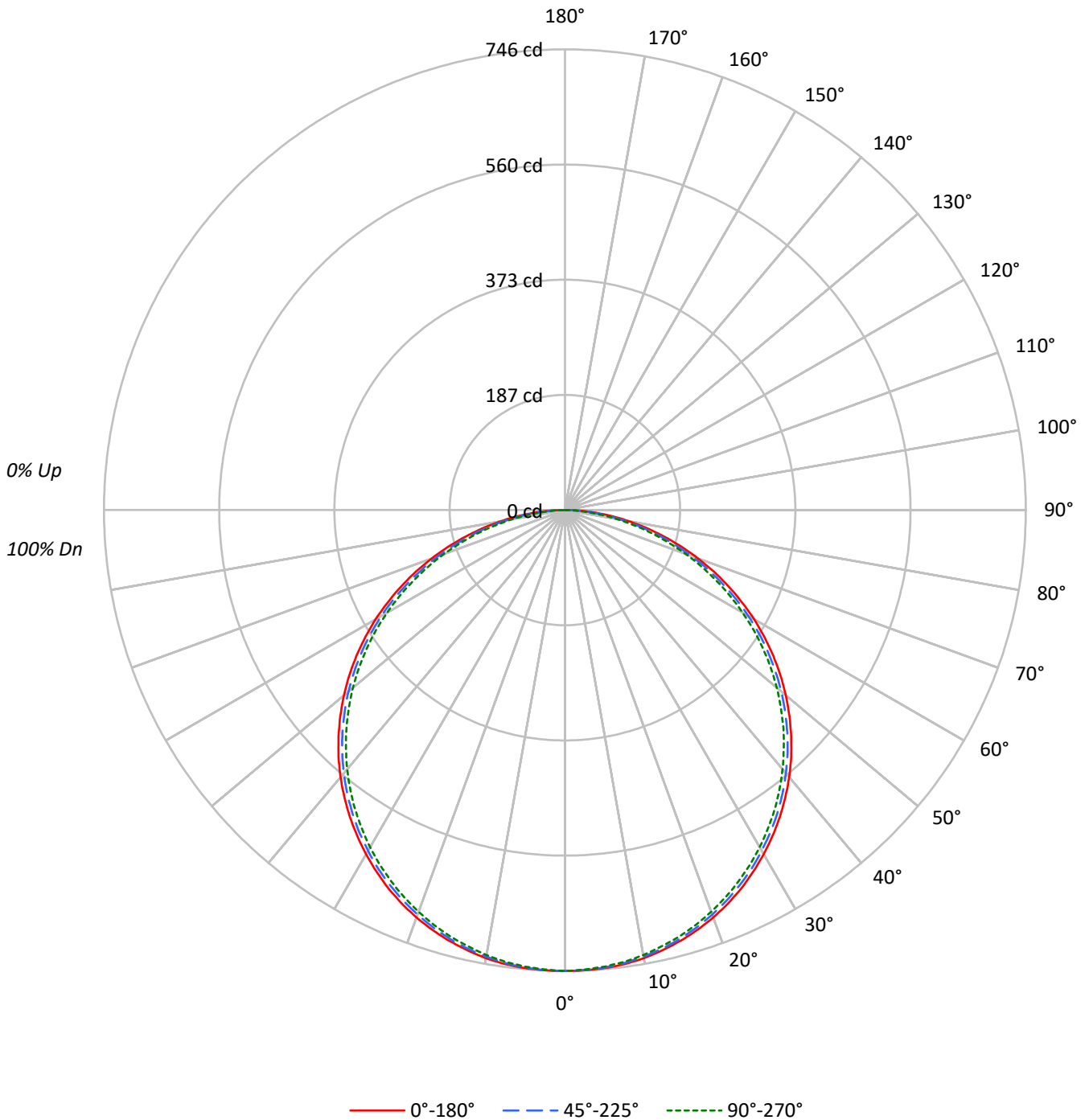
Lumens per Lamp: N/A
Luminaire Lumens: 2200.4 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.39
Luminous Opening: Rectangular (W 0.18m x L: 0.18m x H: 0m)
CIE Type: Direct

Input Watts (W): 26.1
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



TEST NUMBER: P406203
CATALOG NUMBER: SMD14S09SWHE 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P406203
 CATALOG NUMBER: SMD14S09SWHE 5000K

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	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	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23604	23604	23604
5°	23637	23609	23558
10°	23663	23577	23496
15°	23651	23540	23409
20°	23631	23463	23305
25°	23587	23381	23175
30°	23501	23267	23026
35°	23425	23143	22853
40°	23318	22980	22633
45°	23168	22779	22377
50°	22972	22500	22037
55°	22722	22148	21608
60°	22377	21681	21029
65°	21871	21055	20262
70°	21226	20227	19247
75°	20374	19115	17881
80°	19437	17670	15976
85°	18583	15461	12522



TEST NUMBER: P406203
 CATALOG NUMBER: SMD14S09SWHE 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.2
10°-20°	202.9	9.2
20°-30°	308.8	14.0
30°-40°	374.9	17.0
40°-50°	392.5	17.8
50°-60°	358.8	16.3
60°-70°	278.1	12.6
70°-80°	165.4	7.5
80°-90°	48.4	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°	582.3	26.5
0°-40°	957.2	43.5
0°-60°	1708.5	77.6
0°-90°	2200.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2200.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	744	744	744	743	742	71
15°	722	721	719	717	715	204
25°	676	673	670	667	664	311
35°	607	604	599	595	592	379
45°	518	514	509	503	500	399
55°	412	408	402	396	392	368
65°	292	288	281	274	271	289
75°	167	162	156	150	146	176
85°	51	48	43	37	34	57
90°	0	0	0	0	0	



TEST NUMBER: P406203
 CATALOG NUMBER: SMD14S09SWHE 5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.2	746.2	746.2	746.2	746.2
2.5°	745.9	745.8	745.6	745.1	744.5
5°	744.4	744.2	743.5	742.6	741.9
7.5°	741.5	740.3	739.9	738.5	737.6
10°	736.7	735.5	734.0	732.7	731.5
12.5°	730.0	728.6	727.4	725.5	723.7
15°	722.2	721.0	718.8	716.8	714.8
17.5°	712.8	710.9	708.8	706.3	704.3
20°	702.0	700.0	697.0	694.5	692.3
22.5°	689.6	687.0	684.3	681.4	678.9
25°	675.8	673.1	669.9	666.7	664.0
27.5°	660.3	657.5	654.7	650.7	647.9
30°	643.4	641.1	637.0	633.2	630.4
32.5°	625.7	622.9	619.0	614.8	611.7
35°	606.6	603.5	599.3	594.9	591.8
37.5°	586.2	583.0	578.7	573.9	570.7
40°	564.7	561.4	556.5	551.6	548.1
42.5°	542.2	538.2	533.4	528.3	524.4
45°	517.9	514.0	509.2	503.4	500.2
47.5°	492.9	488.9	483.5	478.0	474.4
50°	466.8	462.6	457.2	451.4	447.8
52.5°	439.8	435.6	429.9	424.0	420.3
55°	412.0	407.7	401.6	395.5	391.8
57.5°	382.9	378.9	372.9	366.3	362.6
60°	353.7	348.7	342.7	336.3	332.4
62.5°	323.1	318.7	312.4	305.4	301.9
65°	292.2	287.7	281.3	274.3	270.7
67.5°	261.1	256.5	249.8	243.1	239.7
70°	229.5	224.9	218.7	211.8	208.1
72.5°	198.0	193.7	187.2	180.2	176.8
75°	166.7	162.4	156.4	149.6	146.3
77.5°	136.2	132.2	126.1	119.5	116.2
80°	106.7	102.6	97.0	90.6	87.7
82.5°	78.6	74.6	69.2	63.0	60.0
85°	51.2	47.5	42.6	36.8	34.5
87.5°	25.9	22.7	18.2	13.2	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)