

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: P406191

Luminaire Tested: **SMD12S09SWHE 3500K**

Test Date: 2020-03-28

Test Information

Test Method: LM-79-08
Report Number: P406191
Test Lab: EVERFINE
Test Date: 2020-03-28
Issue Date: 2020-03-28 16:13:16
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD12S09SWHE 3500K
Description: DL-NA1UaA26MR1-2590
Light Source: -
Ballast/Driver: -

Summary

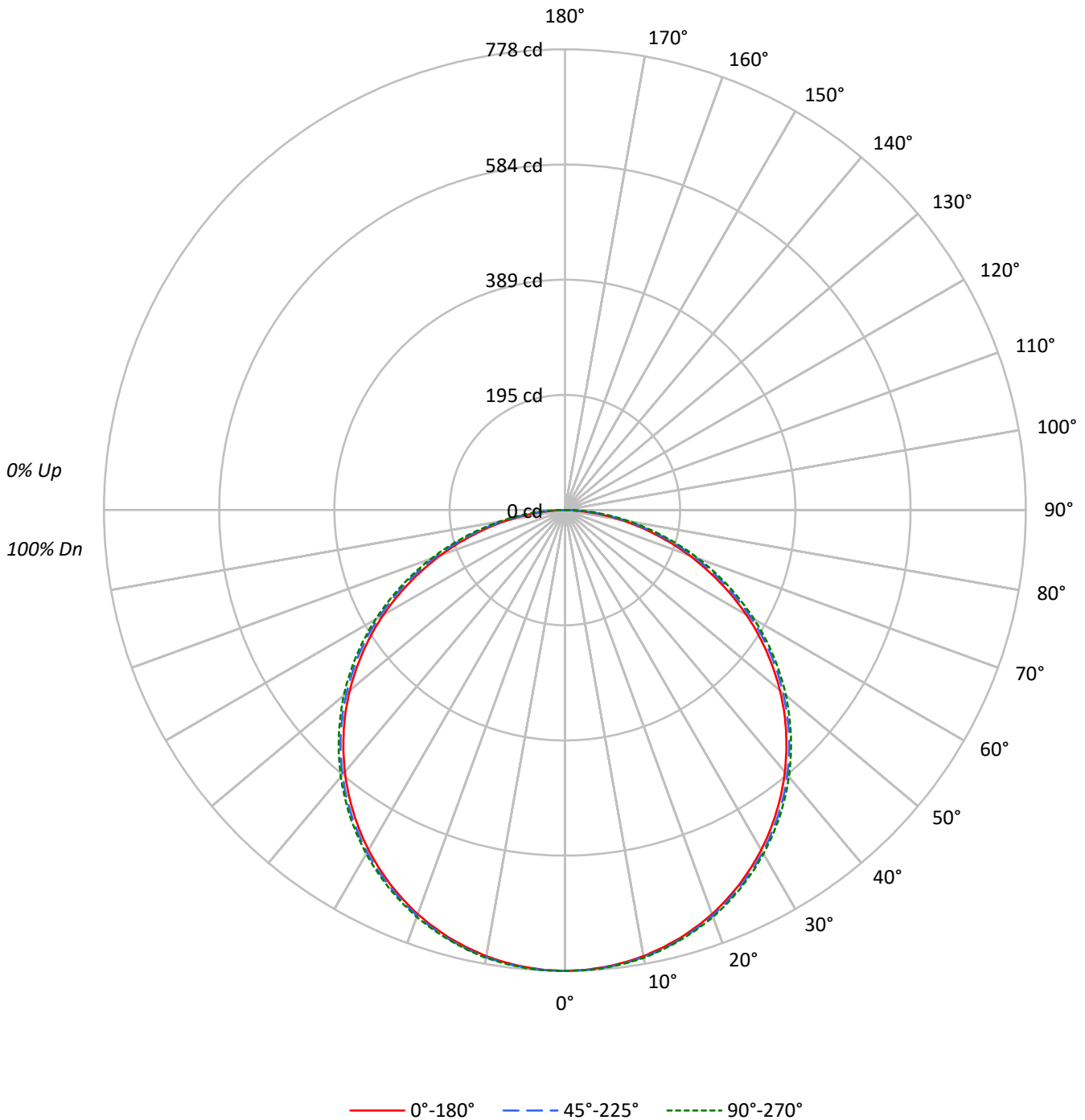
Lumens per Lamp: N/A
Luminaire Lumens: 2315.8 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.15m x L: 0.15m x H: 0m)
CIE Type: Direct

Input Watts (W): 26.2
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	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	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	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33497	33497	33497
5°	33474	33513	33534
10°	33433	33507	33564
15°	33364	33480	33516
20°	33274	33402	33503
25°	33122	33293	33416
30°	32952	33186	33340
35°	32725	33019	33224
40°	32481	32807	33060
45°	32150	32570	32868
50°	31750	32232	32641
55°	31197	31820	32271
60°	30475	31215	31766
65°	29443	30390	31114
70°	28148	29306	30238
75°	26301	27814	29062
80°	23902	25985	27770
85°	19909	23614	26775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.2
10°-20°	211.9	9.2
20°-30°	323.0	13.9
30°-40°	392.7	17.0
40°-50°	412.1	17.8
50°-60°	378.0	16.3
60°-70°	294.4	12.7
70°-80°	176.5	7.6
80°-90°	53.5	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°	608.6	26.3
0°-40°	1001.3	43.2
0°-60°	1791.5	77.4
0°-90°	2315.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2315.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	774	776	775	776	776	74
15°	748	750	751	751	752	211
25°	697	699	701	702	703	321
35°	623	626	628	630	632	390
45°	528	532	535	537	540	407
55°	416	420	424	426	430	371
65°	289	294	298	301	305	286
75°	158	163	167	170	175	168
85°	40	44	48	50	54	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.0	778.0	778.0	778.0	778.0
2.5°	777.2	777.6	777.4	777.4	777.9
5°	774.5	775.8	775.4	775.8	775.9
7.5°	770.4	771.3	772.1	771.9	772.4
10°	764.7	765.8	766.4	766.9	767.7
12.5°	757.1	758.6	759.7	760.1	760.7
15°	748.5	750.2	751.1	751.3	751.9
17.5°	737.9	739.7	740.5	741.3	742.3
20°	726.2	727.7	729.0	729.6	731.2
22.5°	712.2	714.1	715.4	716.5	717.9
25°	697.2	699.4	700.8	701.9	703.4
27.5°	680.6	683.2	684.8	685.9	687.7
30°	662.8	665.5	667.5	668.2	670.6
32.5°	643.4	646.3	648.5	650.0	651.7
35°	622.6	625.9	628.2	629.5	632.1
37.5°	600.9	604.4	606.8	608.0	610.7
40°	577.9	581.3	583.7	585.4	588.2
42.5°	553.4	557.3	560.1	561.6	564.6
45°	528.0	532.3	534.9	536.8	539.8
47.5°	501.6	505.6	508.6	510.7	513.6
50°	474.0	478.1	481.2	483.2	487.3
52.5°	445.2	449.7	452.9	455.1	458.9
55°	415.6	420.3	423.9	426.1	429.9
57.5°	384.9	389.9	393.6	395.8	399.6
60°	353.9	358.8	362.5	364.9	368.9
62.5°	321.5	326.8	330.5	333.3	337.4
65°	289.0	294.2	298.3	300.9	305.4
67.5°	256.2	261.4	265.6	268.1	273.1
70°	223.6	228.6	232.8	235.5	240.2
72.5°	190.6	195.7	199.6	202.6	207.3
75°	158.1	163.1	167.2	169.6	174.7
77.5°	126.9	131.8	135.6	138.3	142.7
80°	96.4	101.0	104.8	107.4	112.0
82.5°	67.6	71.8	75.6	78.0	82.2
85°	40.3	44.2	47.8	50.0	54.2
87.5°	15.6	19.1	22.4	24.4	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)