

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: P406202

Luminaire Tested: **SMD14S09SWHE 4000K**

Test Date: 2020-03-28

Test Information

Test Method: LM-79-08
Report Number: P406202
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 4000K
Description: DL-NA1UaA26OR1-2590
Light Source: -
Ballast/Driver: -

Summary

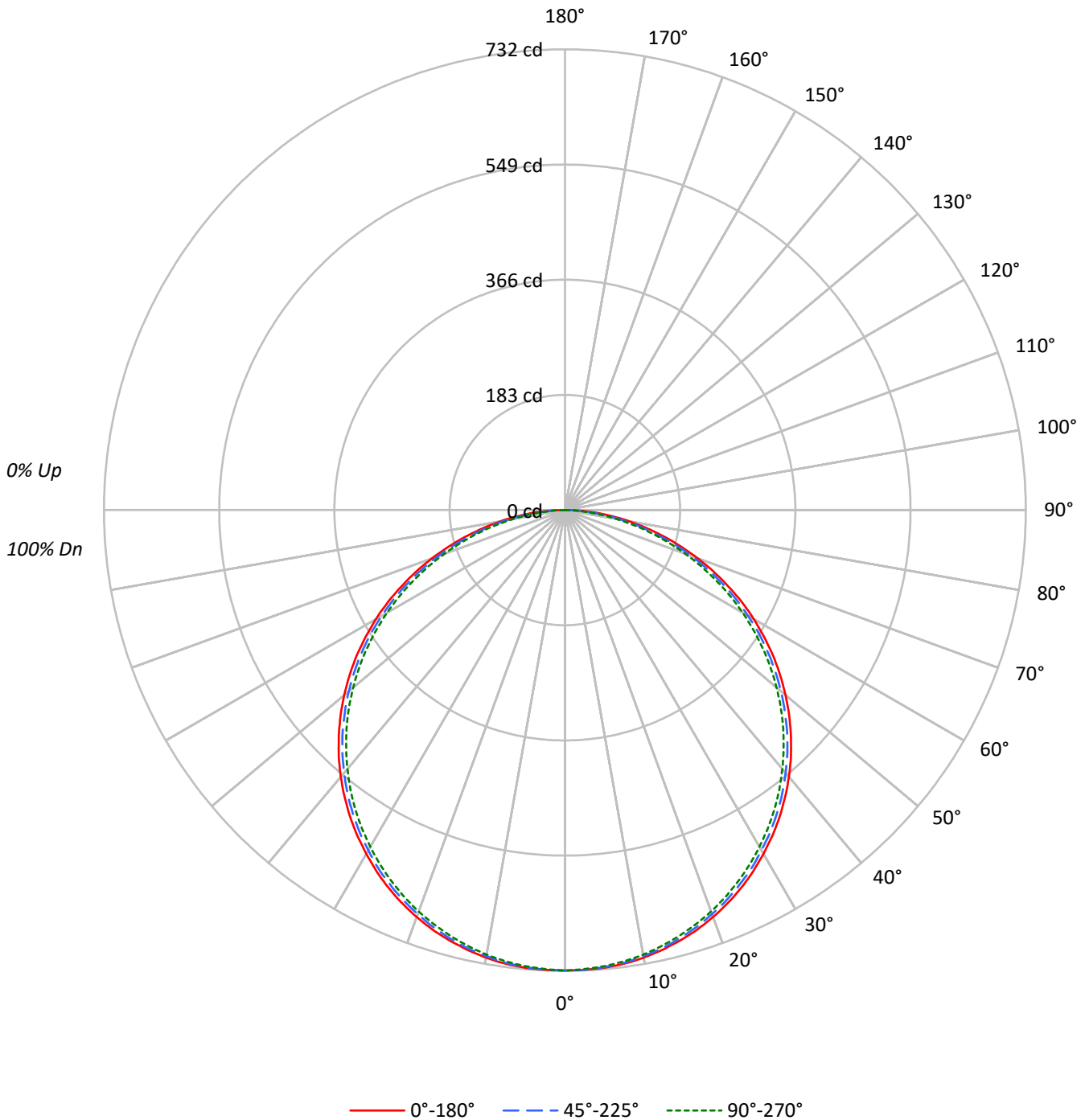
Lumens per Lamp: N/A
Luminaire Lumens: 2157.1 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.39
Luminous Opening: Rectangular (W 0.18m x L: 0.18m x H: 0m)
CIE Type: Direct

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



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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	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°	23139	23139	23139
5°	23174	23142	23094
10°	23198	23114	23034
15°	23186	23075	22947
20°	23163	23002	22847
25°	23123	22921	22718
30°	23041	22811	22573
35°	22965	22687	22405
40°	22860	22526	22187
45°	22712	22332	21934
50°	22524	22057	21604
55°	22275	21713	21183
60°	21934	21257	20618
65°	21437	20643	19865
70°	20810	19829	18868
75°	19971	18736	17526
80°	19055	17324	15648
85°	18220	15135	12268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.2
10°-20°	198.9	9.2
20°-30°	302.7	14.0
30°-40°	367.5	17.0
40°-50°	384.7	17.8
50°-60°	351.8	16.3
60°-70°	272.7	12.6
70°-80°	162.1	7.5
80°-90°	47.5	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°	570.8	26.5
0°-40°	938.4	43.5
0°-60°	1674.9	77.6
0°-90°	2157.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2157.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	730	730	729	728	727	69
15°	708	707	705	703	701	200
25°	662	660	657	654	651	305
35°	595	592	588	583	580	372
45°	508	504	499	494	490	392
55°	404	400	394	388	384	361
65°	286	282	276	269	265	283
75°	163	159	153	147	143	173
85°	50	47	42	36	34	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731.5	731.5	731.5	731.5	731.5
2.5°	731.2	731.1	730.9	730.5	729.9
5°	729.8	729.6	728.8	728.0	727.3
7.5°	726.9	725.7	725.3	724.0	723.1
10°	722.2	721.0	719.6	718.3	717.1
12.5°	715.6	714.3	713.1	711.2	709.5
15°	708.0	706.8	704.6	702.7	700.7
17.5°	698.8	696.9	694.8	692.4	690.4
20°	688.1	686.2	683.3	680.8	678.7
22.5°	676.0	673.5	670.8	667.9	665.6
25°	662.5	659.8	656.7	653.6	650.9
27.5°	647.3	644.6	641.8	637.9	635.2
30°	630.8	628.5	624.5	620.8	618.0
32.5°	613.3	610.7	606.8	602.7	599.6
35°	594.7	591.6	587.5	583.2	580.2
37.5°	574.7	571.5	567.3	562.6	559.5
40°	553.6	550.4	545.5	540.7	537.3
42.5°	531.5	527.6	522.9	517.9	514.1
45°	507.7	503.9	499.2	493.5	490.3
47.5°	483.2	479.3	473.9	468.6	465.1
50°	457.7	453.5	448.2	442.5	439.0
52.5°	431.2	427.1	421.4	415.6	412.0
55°	403.9	399.7	393.7	387.7	384.1
57.5°	375.3	371.4	365.6	359.1	355.5
60°	346.7	341.9	336.0	329.7	325.9
62.5°	316.7	312.4	306.2	299.4	296.0
65°	286.4	282.0	275.8	268.9	265.4
67.5°	255.9	251.5	244.9	238.3	235.0
70°	225.0	220.5	214.4	207.6	204.0
72.5°	194.1	189.9	183.5	176.7	173.3
75°	163.4	159.2	153.3	146.6	143.4
77.5°	133.5	129.6	123.6	117.1	114.0
80°	104.6	100.6	95.1	88.8	85.9
82.5°	77.1	73.2	67.8	61.7	58.8
85°	50.2	46.6	41.7	36.1	33.8
87.5°	25.3	22.3	17.8	13.0	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)