

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: P406186

Luminaire Tested: **SMD12R09SWHE 3500K**

Test Date: 2020-03-28

Test Information

Test Method: LM-79-08
Report Number: P406186
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: SMD12R09SWHE 3500K
Description: DL-NA1UaA26MR1-2590
Light Source: -
Ballast/Driver: -

Summary

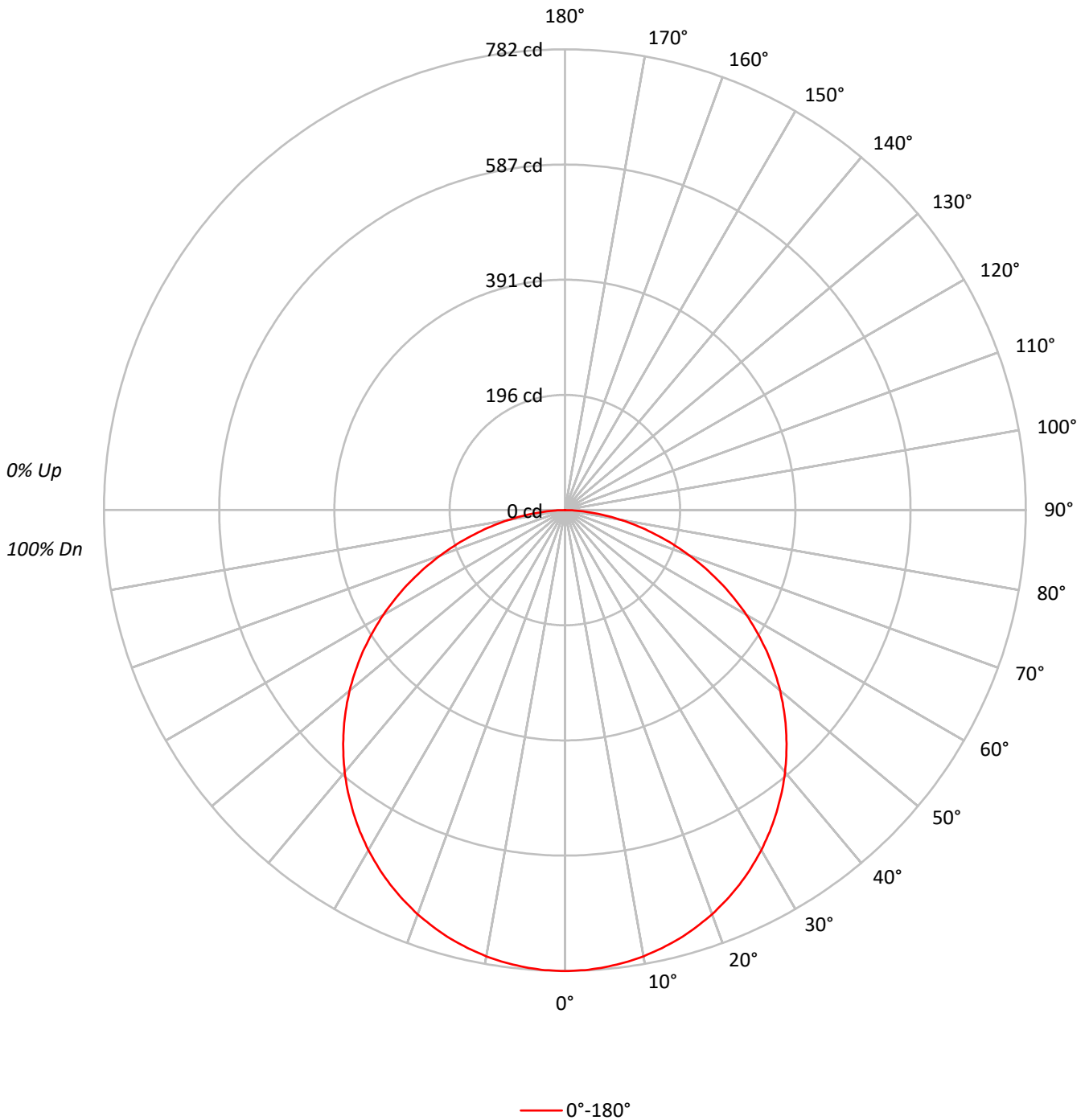
Lumens per Lamp: N/A
Luminaire Lumens: 2287.3 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Circular (Dia: 0.15m x H: 0m)
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	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	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	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	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°
0°	42891
5°	42863
10°	42807
15°	42719
20°	42599
25°	42414
30°	42190
35°	41901
40°	41585
45°	41159
50°	40655
55°	39951
60°	39021
65°	37708
70°	36032
75°	33678
80°	30623
85°	25537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.2
10°-20°	212.4	9.3
20°-30°	323.2	14.1
30°-40°	391.8	17.1
40°-50°	409.5	17.9
50°-60°	373.3	16.3
60°-70°	287.5	12.6
70°-80°	168.5	7.4
80°-90°	47.0	2.1
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°	609.7	26.7
0°-40°	1001.4	43.8
0°-60°	1784.2	78.0
0°-90°	2287.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	782	
5°	779	74
15°	753	212
25°	701	323
35°	626	392
45°	531	409
55°	418	373
65°	291	288
75°	159	169
85°	41	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	782.4
2.5°	781.6
5°	778.9
7.5°	774.7
10°	769.0
12.5°	761.4
15°	752.7
17.5°	742.0
20°	730.2
22.5°	716.2
25°	701.2
27.5°	684.5
30°	666.5
32.5°	647.0
35°	626.1
37.5°	604.3
40°	581.1
42.5°	556.5
45°	530.9
47.5°	504.4
50°	476.7
52.5°	447.7
55°	418.0
57.5°	387.0
60°	355.9
62.5°	323.3
65°	290.7
67.5°	257.7
70°	224.8
72.5°	191.6
75°	159.0
77.5°	127.6
80°	97.0
82.5°	68.0
85°	40.6
87.5°	15.7
90°	0.0

(END OF REPORT)