

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: P406185

Luminaire Tested: **SMD12R09SWHE 3000K**

Test Date: 2020-03-28

Test Information

Test Method: LM-79-08
Report Number: P406185
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 3000K
Description: DL-NA1UaA26MR1-2590
Light Source: -
Ballast/Driver: -

Summary

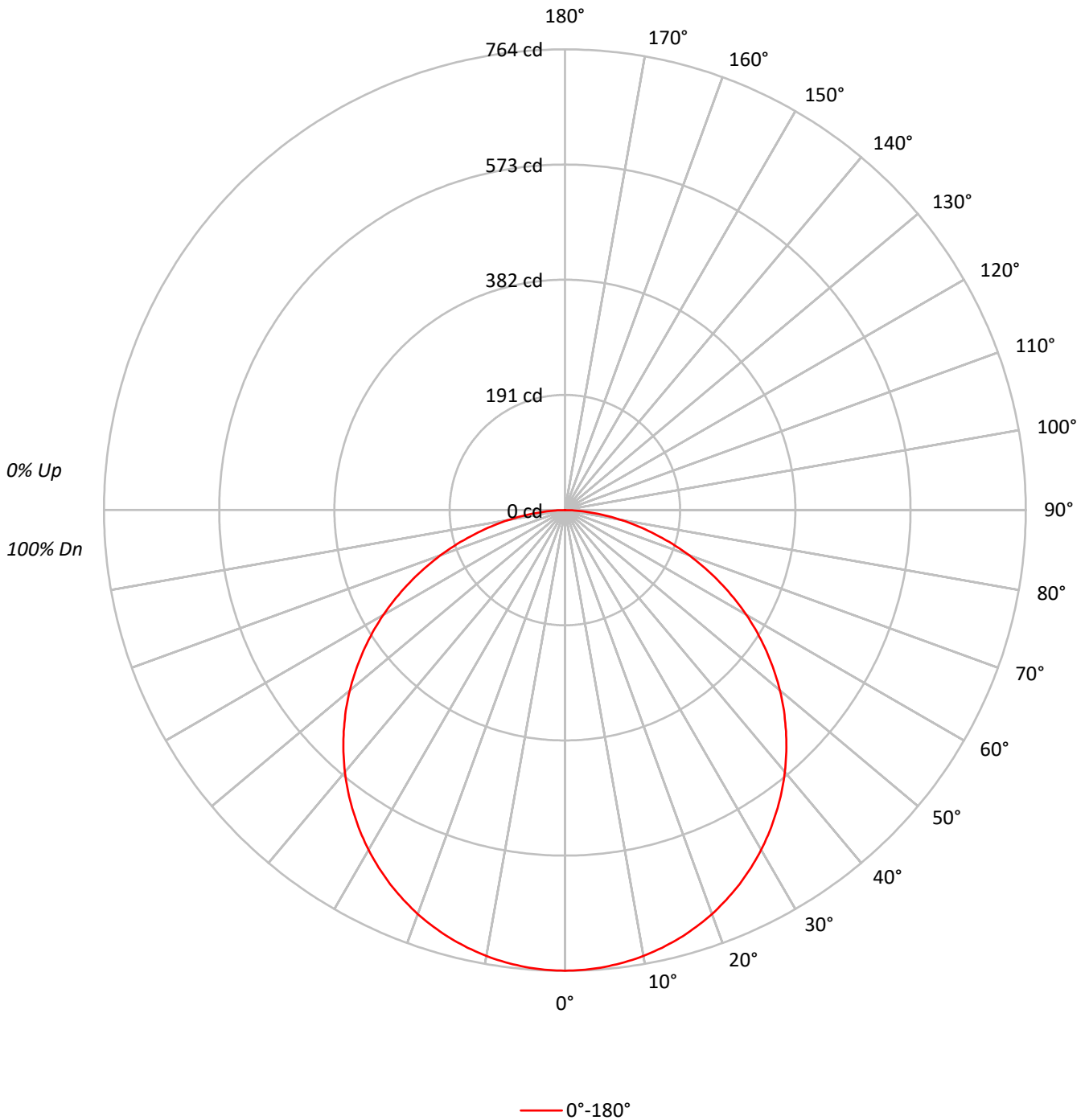
Lumens per Lamp: N/A
Luminaire Lumens: 2233.2 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Circular (Dia: 0.15m x H: 0m)
CIE Type: Direct

Input Watts (W): 26.2
Input Voltage (V): NR
Input Current (Ain): 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°	41877
5°	41850
10°	41794
15°	41709
20°	41595
25°	41410
30°	41196
35°	40910
40°	40605
45°	40190
50°	39692
55°	39005
60°	38100
65°	36813
70°	35182
75°	32873
80°	29896
85°	24908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.2
10°-20°	207.4	9.3
20°-30°	315.5	14.1
30°-40°	382.5	17.1
40°-50°	399.8	17.9
50°-60°	364.5	16.3
60°-70°	280.7	12.6
70°-80°	164.6	7.4
80°-90°	45.9	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°	595.3	26.7
0°-40°	977.8	43.8
0°-60°	1742.1	78.0
0°-90°	2233.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	764	
5°	760	72
15°	735	207
25°	685	316
35°	611	383
45°	518	400
55°	408	364
65°	284	281
75°	155	165
85°	40	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	763.9
2.5°	763.1
5°	760.5
7.5°	756.4
10°	750.8
12.5°	743.4
15°	734.9
17.5°	724.5
20°	713.0
22.5°	699.3
25°	684.6
27.5°	668.3
30°	650.8
32.5°	631.7
35°	611.3
37.5°	590.0
40°	567.4
42.5°	543.4
45°	518.4
47.5°	492.5
50°	465.4
52.5°	437.1
55°	408.1
57.5°	377.9
60°	347.5
62.5°	315.7
65°	283.8
67.5°	251.6
70°	219.5
72.5°	187.1
75°	155.2
77.5°	124.6
80°	94.7
82.5°	66.4
85°	39.6
87.5°	15.3
90°	0.0

(END OF REPORT)