

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: P406187

Luminaire Tested: **SMD12R09SWHE 4000K**

Test Date: 2020-03-28

Test Information

Test Method: LM-79-08
Report Number: P406187
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 4000K
Description: DL-NA1UaA26MR1-2590
Light Source: -
Ballast/Driver: -

Summary

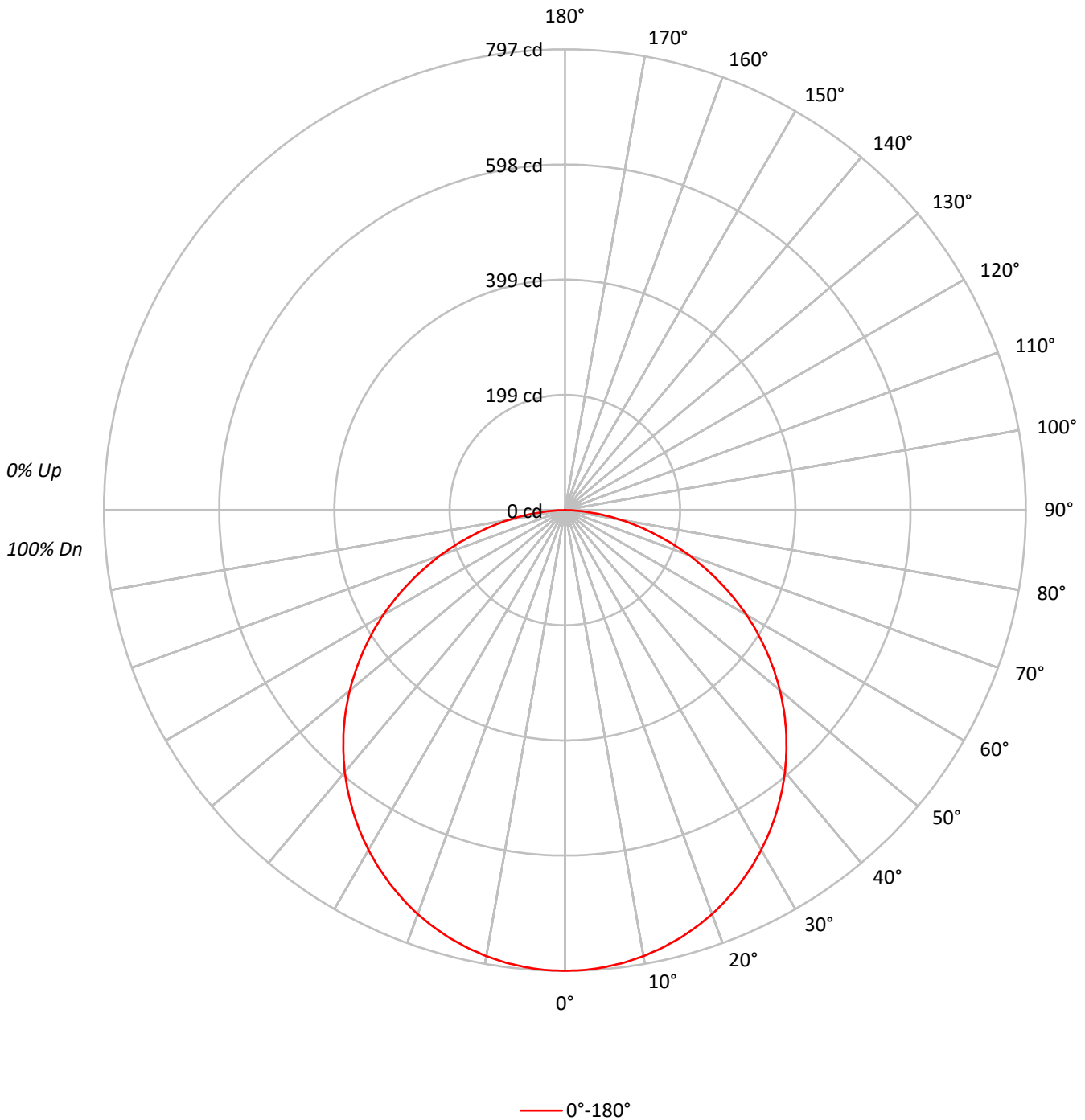
Lumens per Lamp: N/A
Luminaire Lumens: 2330.2 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Circular (Dia: 0.15m x H: 0m)
CIE Type: Direct

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°	43697
5°	43671
10°	43609
15°	43519
20°	43404
25°	43212
30°	42988
35°	42690
40°	42372
45°	41935
50°	41414
55°	40696
60°	39756
65°	38409
70°	36705
75°	34292
80°	31191
85°	25977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	3.2
10°-20°	216.4	9.3
20°-30°	329.3	14.1
30°-40°	399.1	17.1
40°-50°	417.2	17.9
50°-60°	380.3	16.3
60°-70°	292.9	12.6
70°-80°	171.7	7.4
80°-90°	47.9	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°	621.1	26.7
0°-40°	1020.3	43.8
0°-60°	1817.8	78.0
0°-90°	2330.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	797	
5°	794	75
15°	767	216
25°	714	329
35°	638	399
45°	541	417
55°	426	380
65°	296	293
75°	162	172
85°	41	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	797.1
2.5°	796.3
5°	793.6
7.5°	789.3
10°	783.4
12.5°	775.7
15°	766.8
17.5°	756.0
20°	744.0
22.5°	729.7
25°	714.4
27.5°	697.3
30°	679.1
32.5°	659.2
35°	637.9
37.5°	615.6
40°	592.1
42.5°	567.0
45°	540.9
47.5°	513.9
50°	485.6
52.5°	456.1
55°	425.8
57.5°	394.3
60°	362.6
62.5°	329.4
65°	296.1
67.5°	262.5
70°	229.0
72.5°	195.2
75°	161.9
77.5°	130.0
80°	98.8
82.5°	69.3
85°	41.3
87.5°	16.0
90°	0.0

(END OF REPORT)