

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: P417412

Luminaire Tested: **SMD4R69SWH - 2700K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-79-08
Report Number: P417412
Test Lab:
Issue Date: 11/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD4R69SWH - 2700K
Description: SMD SELECTABLE CCT 2700K
Light Source: SELECTABLE CCT LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

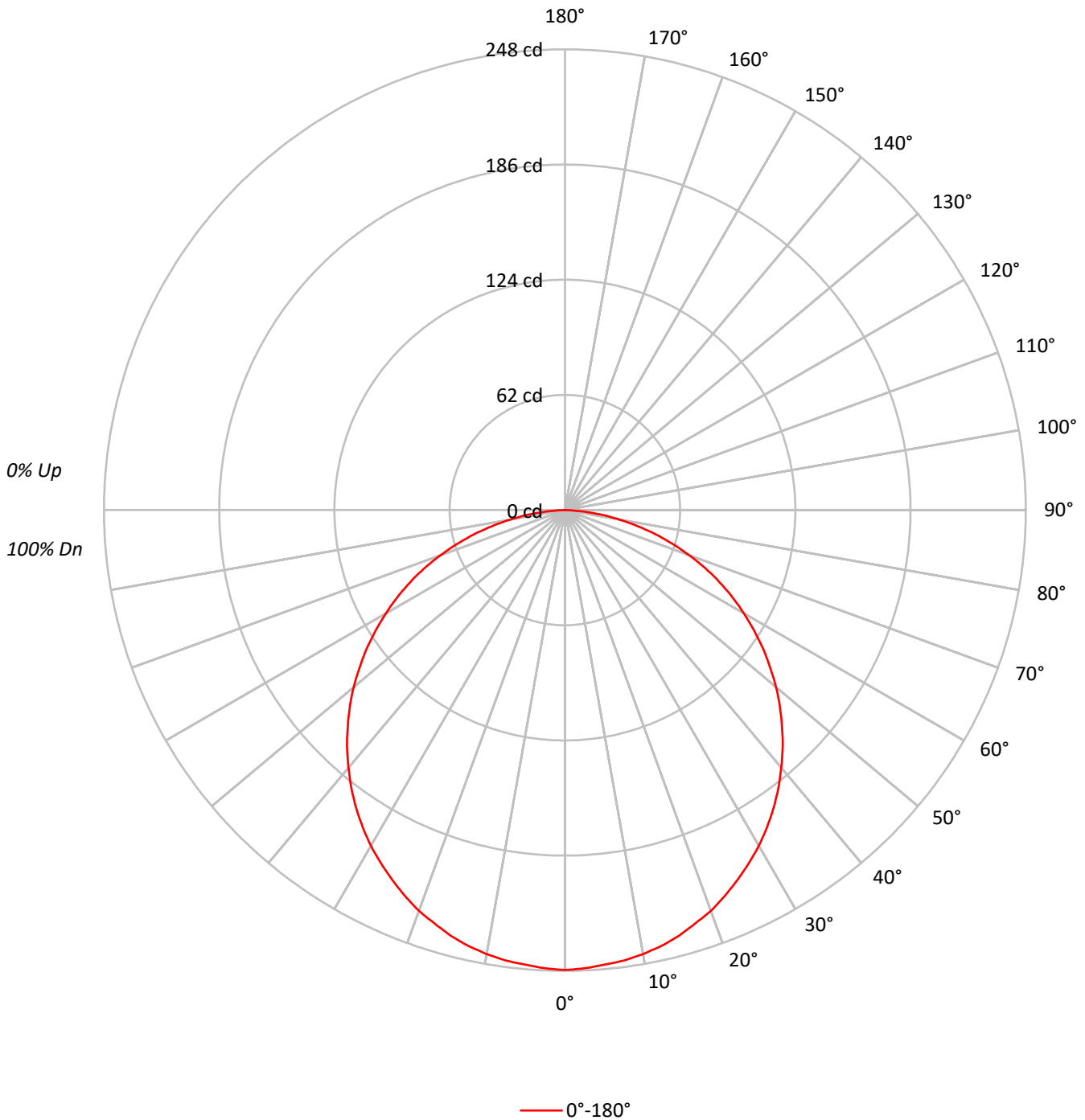
Lumens per Lamp: N/A
Luminaire Lumens: 716.5 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.38
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.1
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	98	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	47	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	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31148
5°	31027
10°	31002
15°	30905
20°	30750
25°	30508
30°	30328
35°	30082
40°	29752
45°	29420
50°	29055
55°	28567
60°	27989
65°	27337
70°	26272
75°	24653
80°	22032
85°	17039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	3.3
10°-20°	66.9	9.3
20°-30°	101.3	14.1
30°-40°	122.4	17.1
40°-50°	127.5	17.8
50°-60°	116.3	16.2
60°-70°	90.7	12.7
70°-80°	53.5	7.5
80°-90°	14.2	2.0
90°-100°	0.1	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°	191.6	26.7
0°-40°	314.0	43.8
0°-60°	557.9	77.9
0°-90°	716.4	100.0
90°-120°	0.1	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	716.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	248	
5°	246	23
15°	237	67
25°	220	101
35°	196	122
45°	165	128
55°	130	116
65°	92	91
75°	51	54
85°	12	14
90°	1	1
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

	0°
0°	247.5
2.5°	246.9
5°	245.6
7.5°	244.5
10°	242.6
12.5°	240.3
15°	237.2
17.5°	233.3
20°	229.6
22.5°	224.8
25°	219.7
27.5°	214.3
30°	208.7
32.5°	202.4
35°	195.8
37.5°	188.7
40°	181.1
42.5°	173.5
45°	165.3
47.5°	157.0
50°	148.4
52.5°	139.3
55°	130.2
57.5°	120.7
60°	111.2
62.5°	101.7
65°	91.8
67.5°	81.8
70°	71.4
72.5°	61.0
75°	50.7
77.5°	40.4
80°	30.4
82.5°	20.9
85°	11.8
87.5°	4.1
90°	0.7
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)