

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: P417415

Luminaire Tested: **SMD4R69SWH - 4000K**

Test Date: 2020-05-18

Test Information

Test Method: LM-79-08
Report Number: P417415
Test Lab:
Test Date: 2020-05-18
Issue Date: 11/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD4R69SWH - 4000K
Description: SMD SELECTABLE CCT 4000K
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

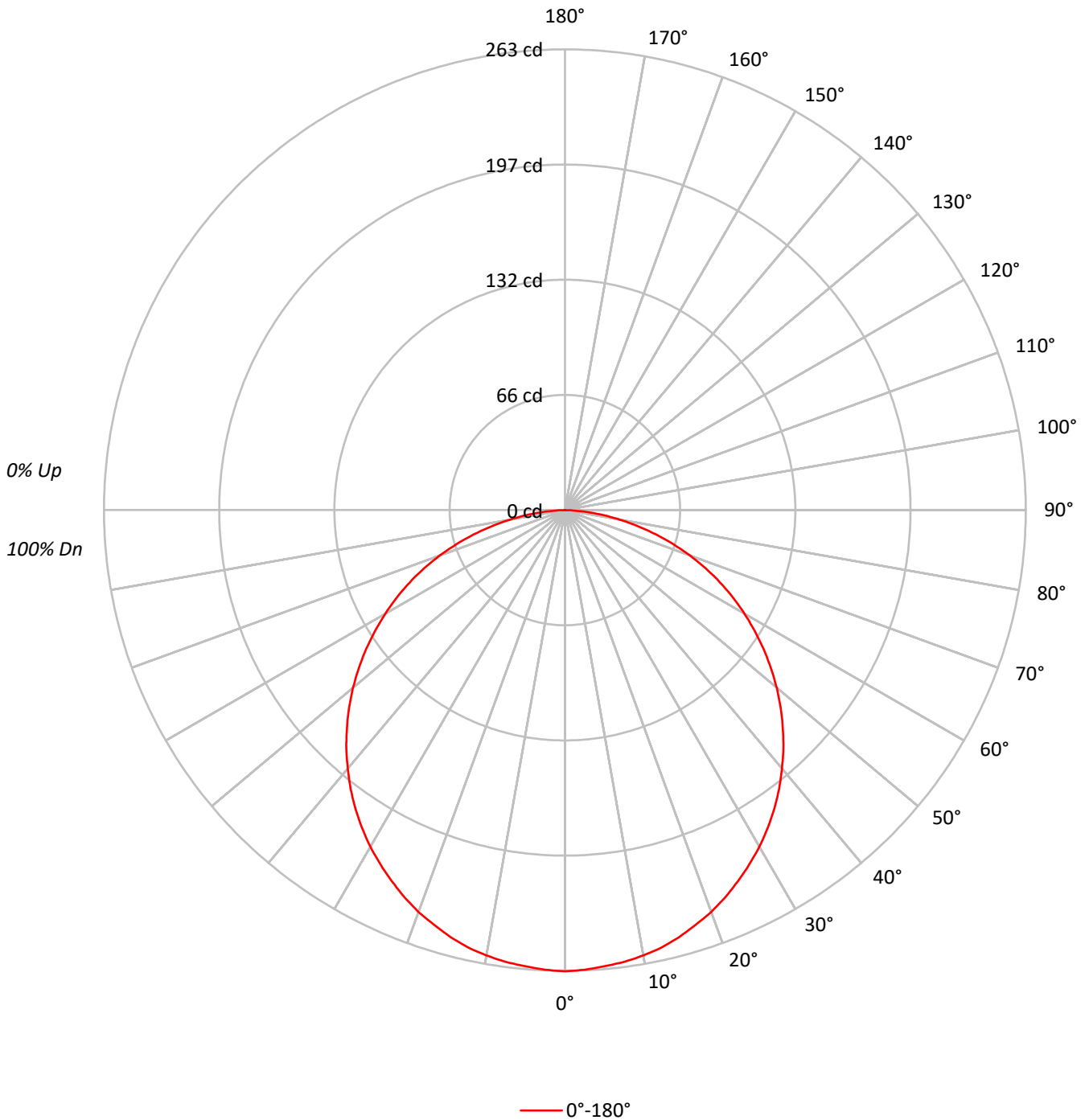
Lumens per Lamp: N/A
Luminaire Lumens: 762.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.38
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.1
Input Voltage (V): NR
Input Current (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	91	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	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	29	41	33	28	40	33	28	39	33	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°	33136
5°	33010
10°	32983
15°	32872
20°	32705
25°	32452
30°	32261
35°	32002
40°	31658
45°	31306
50°	30895
55°	30389
60°	29776
65°	29094
70°	27965
75°	26209
80°	23409
85°	18194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	3.3
10°-20°	71.2	9.3
20°-30°	107.8	14.1
30°-40°	130.3	17.1
40°-50°	135.7	17.8
50°-60°	123.7	16.2
60°-70°	96.5	12.7
70°-80°	56.9	7.5
80°-90°	15.0	2.0
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°	203.8	26.7
0°-40°	334.1	43.8
0°-60°	593.5	77.9
0°-90°	762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	762.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	263	
5°	261	25
15°	252	71
25°	234	108
35°	208	130
45°	176	136
55°	138	124
65°	98	97
75°	54	57
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	263.3
2.5°	262.6
5°	261.3
7.5°	260.1
10°	258.1
12.5°	255.7
15°	252.3
17.5°	248.2
20°	244.2
22.5°	239.2
25°	233.7
27.5°	228.0
30°	222.0
32.5°	215.3
35°	208.3
37.5°	200.8
40°	192.7
42.5°	184.6
45°	175.9
47.5°	167.0
50°	157.8
52.5°	148.2
55°	138.5
57.5°	128.4
60°	118.3
62.5°	108.2
65°	97.7
67.5°	87.0
70°	76.0
72.5°	64.9
75°	53.9
77.5°	42.9
80°	32.3
82.5°	22.2
85°	12.6
87.5°	4.3
90°	0.0

(END OF REPORT)