

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P210261

Luminaire Tested: **SMD4R6940WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P210261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28194-R2)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD4R6940WH  
Description: 4" Round Surface Mount, 600 lm, 90CRI, 4000K  
Light Source: (28) 4000K CCT, 90 CRI LEDS  
L130-4090003000W21  
Ballast/Driver: Leedarson  
LD120-210

**Summary**

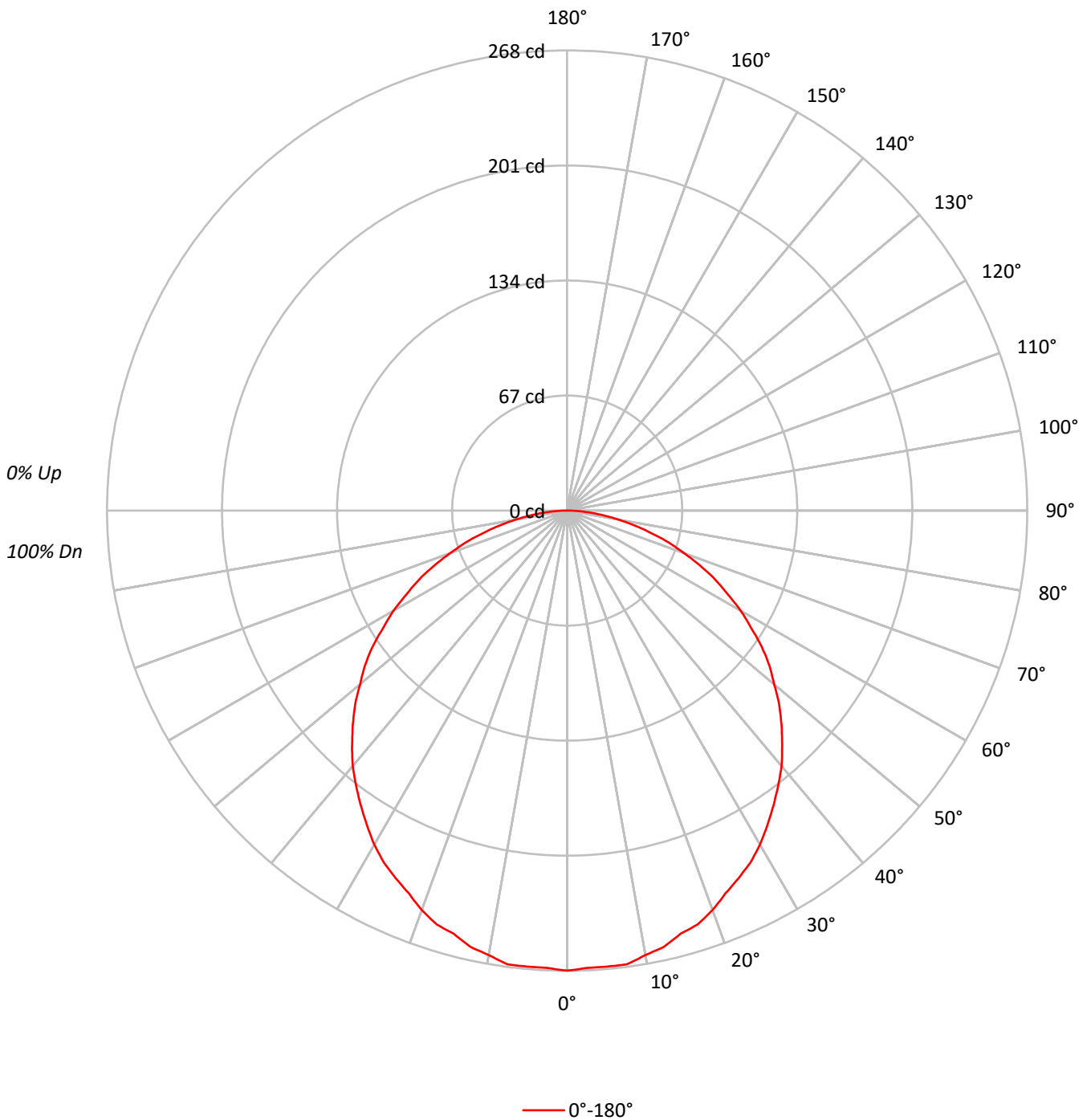
Lumens per Lamp: N/A  
Luminaire Lumens: 760.0 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
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



TEST NUMBER: P210261  
CATALOG NUMBER: SMD4R6940WH

### Luminous Intensity Polar Plot





TEST NUMBER: P210261

CATALOG NUMBER: SMD4R6940WH

**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	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26		37	31	26		36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	26480
5°	26452
10°	26376
15°	26114
20°	26044
25°	25760
30°	25646
35°	25279
40°	25070
45°	24672
50°	24204
55°	23850
60°	23090
65°	22265
70°	20923
75°	19400
80°	17361
85°	14403



TEST NUMBER: P210261

CATALOG NUMBER: SMD4R6940WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.4	3.3
10°-20°	72.3	9.5
20°-30°	109.0	14.3
30°-40°	131.2	17.3
40°-50°	136.2	17.9
50°-60°	123.2	16.2
60°-70°	93.8	12.3
70°-80°	54.1	7.1
80°-90°	14.9	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°	206.7	27.2
0°-40°	337.9	44.5
0°-60°	597.3	78.6
0°-90°	760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	268	
5°	267	25
15°	255	72
25°	236	109
35°	210	131
45°	176	136
55°	138	123
65°	95	94
75°	51	54
85°	13	15
90°	0	



TEST NUMBER: P210261

CATALOG NUMBER: SMD4R6940WH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	267.9
2.5°	266.6
5°	266.6
7.5°	266.6
10°	262.8
12.5°	260.3
15°	255.2
17.5°	252.7
20°	247.6
22.5°	241.2
25°	236.2
27.5°	231.1
30°	224.7
32.5°	217.1
35°	209.5
37.5°	201.9
40°	194.3
42.5°	185.4
45°	176.5
47.5°	167.6
50°	157.4
52.5°	148.5
55°	138.4
57.5°	127.0
60°	116.8
62.5°	105.4
65°	95.2
67.5°	83.8
70°	72.4
72.5°	62.2
75°	50.8
77.5°	40.6
80°	30.5
82.5°	21.6
85°	12.7
87.5°	5.1
90°	0.0

(END OF REPORT)