

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: P210272

Luminaire Tested: **SMD4S6950WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P210272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28196-R2)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD4S6950WH  
Description: 4" Square Surface Mount, 600 lm, 90CRI, 5000K  
Light Source: (21) 5000K CCT, 90 CRI LEDS  
L130-5090003000W21  
Ballast/Driver: Leedarson  
LD120-210

**Summary**

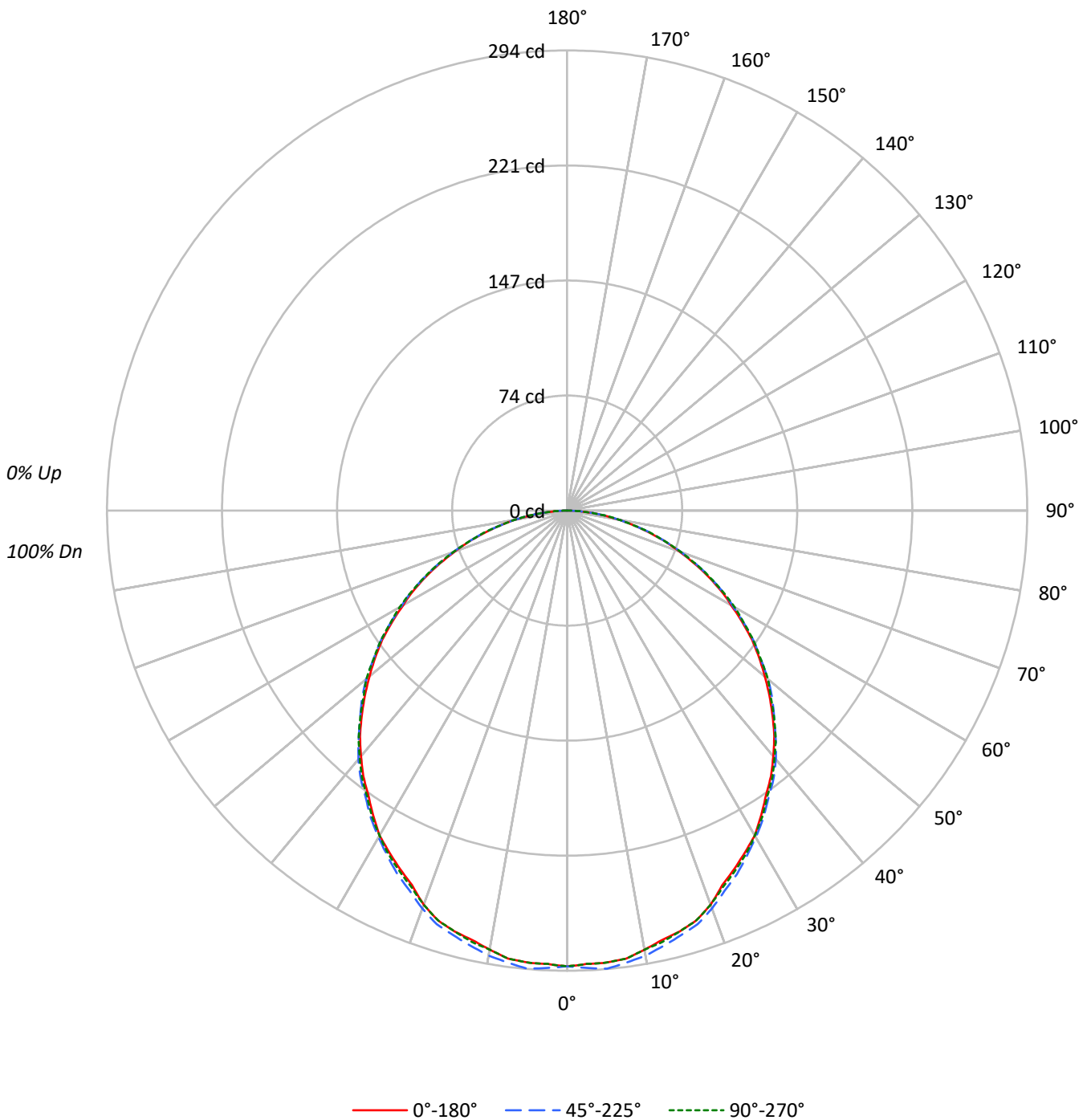
Lumens per Lamp: N/A  
Luminaire Lumens: 809.9 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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	96	106	102	98	94	97	94	91		93	91	88		90	88	86	83
2	99	90	84	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	65	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	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		44	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		36	30	26	24

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

	0°	45°	90°
0°	28783	28783	28783
5°	28764	29151	28764
10°	28585	28976	28585
15°	28478	28744	28478
20°	28190	28463	28190
25°	27549	27963	27690
30°	27358	27506	27358
35°	26739	27053	26896
40°	26438	26774	26606
45°	25944	26126	26126
50°	25357	25757	25757
55°	24867	25091	25091
60°	23940	24197	24454
65°	23201	23505	23505
70°	21964	22339	22339
75°	20661	21157	21157
80°	19069	19069	19069
85°	16104	16104	16104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.6	3.4
10°-20°	78.8	9.7
20°-30°	117.3	14.5
30°-40°	139.8	17.3
40°-50°	143.8	17.8
50°-60°	129.3	16.0
60°-70°	98.7	12.2
70°-80°	57.9	7.2
80°-90°	16.7	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°	223.7	27.6
0°-40°	363.5	44.9
0°-60°	636.6	78.6
0°-90°	809.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	291	291	291	291	291	
5°	290	290	294	291	290	28
15°	278	278	281	280	278	78
25°	253	254	256	255	254	117
35°	222	223	224	223	223	139
45°	186	186	187	187	187	143
55°	144	144	146	144	146	129
65°	99	99	100	99	100	98
75°	54	54	55	55	55	58
85°	14	14	14	14	14	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	291.2	291.2	291.2	291.2	291.2
2.5°	289.9	288.7	292.5	291.2	289.9
5°	289.9	289.9	293.8	291.2	289.9
7.5°	288.7	288.7	291.2	289.9	288.7
10°	284.8	284.8	288.7	286.1	284.8
12.5°	280.9	280.9	284.8	283.5	282.2
15°	278.3	278.3	280.9	279.6	278.3
17.5°	274.5	274.5	277.1	275.8	274.5
20°	268.0	266.7	270.6	268.0	268.0
22.5°	259.0	259.0	262.9	260.3	260.3
25°	252.6	253.9	256.4	255.1	253.9
27.5°	246.1	247.4	248.7	248.7	247.4
30°	239.7	239.7	241.0	239.7	239.7
32.5°	230.7	230.7	233.2	232.0	232.0
35°	221.6	222.9	224.2	222.9	222.9
37.5°	213.9	213.9	216.5	215.2	215.2
40°	204.9	204.9	207.5	204.9	206.2
42.5°	195.9	195.9	197.2	195.9	197.2
45°	185.6	185.6	186.9	186.9	186.9
47.5°	175.3	175.3	177.8	176.5	176.5
50°	164.9	164.9	167.5	166.2	167.5
52.5°	154.6	154.6	155.9	155.9	155.9
55°	144.3	144.3	145.6	144.3	145.6
57.5°	132.7	132.7	134.0	134.0	134.0
60°	121.1	122.4	122.4	122.4	123.7
62.5°	110.8	110.8	112.1	110.8	112.1
65°	99.2	99.2	100.5	99.2	100.5
67.5°	87.6	87.6	88.9	87.6	88.9
70°	76.0	77.3	77.3	77.3	77.3
72.5°	65.7	65.7	65.7	65.7	65.7
75°	54.1	54.1	55.4	55.4	55.4
77.5°	43.8	43.8	43.8	43.8	43.8
80°	33.5	33.5	33.5	33.5	33.5
82.5°	23.2	23.2	24.5	24.5	24.5
85°	14.2	14.2	14.2	14.2	14.2
87.5°	6.4	6.4	6.4	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)