

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: P210269

Luminaire Tested: **SMD4S6930WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P210269  
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: SMD4S6930WH  
Description: 4" Square Surface Mount, 600 lm, 90CRI, 3000K  
Light Source: (21) 3000K CCT, 90 CRI LEDS  
L130-3090003000W21  
Ballast/Driver: Leedarson  
LD120-210

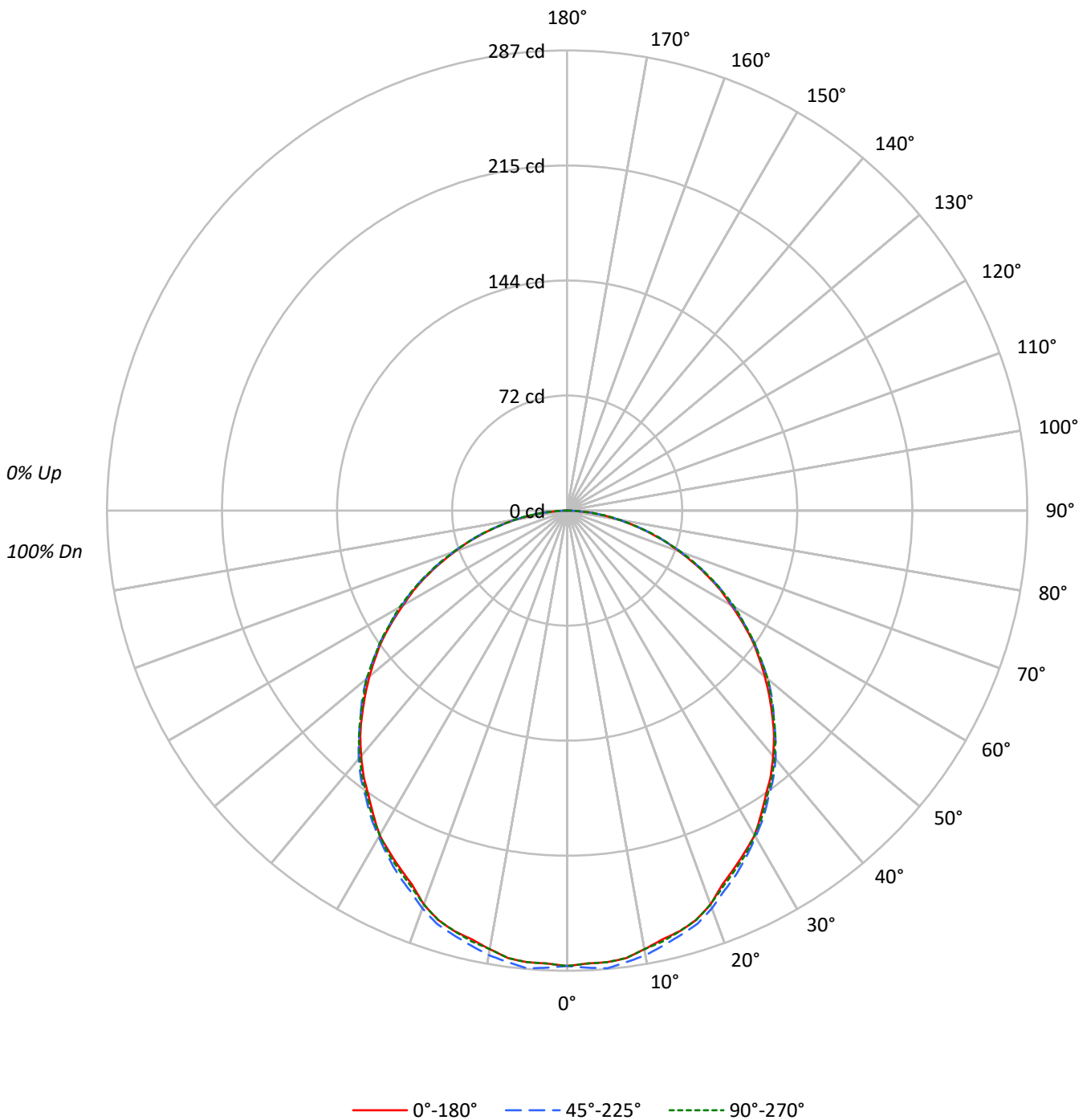
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 790.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 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): 9.9  
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°	28071	28071	28071
5°	28059	28436	28059
10°	27882	28253	27882
15°	27782	28038	27782
20°	27496	27758	27496
25°	26862	27276	27003
30°	26684	26821	26684
35°	26088	26389	26232
40°	25780	26103	25948
45°	25301	25469	25469
50°	24742	25126	25126
55°	24264	24470	24470
60°	23347	23604	23861
65°	22640	22920	22920
70°	21443	21790	21790
75°	20164	20622	20622
80°	18613	18613	18613
85°	15650	15650	15650



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.9	3.4
10°-20°	76.8	9.7
20°-30°	114.4	14.5
30°-40°	136.3	17.3
40°-50°	140.3	17.8
50°-60°	126.1	16.0
60°-70°	96.3	12.2
70°-80°	56.5	7.2
80°-90°	16.3	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°	218.2	27.6
0°-40°	354.5	44.9
0°-60°	620.9	78.6
0°-90°	790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	790.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	284	284	284	284	284	
5°	283	283	287	284	283	27
15°	272	272	274	273	272	77
25°	246	248	250	249	248	114
35°	216	217	219	217	217	136
45°	181	181	182	182	182	140
55°	141	141	142	141	142	125
65°	97	97	98	97	98	96
75°	53	53	54	54	54	56
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°	284.0	284.0	284.0	284.0	284.0
2.5°	282.8	281.5	285.3	284.0	282.8
5°	282.8	282.8	286.6	284.0	282.8
7.5°	281.5	281.5	284.0	282.8	281.5
10°	277.8	277.8	281.5	279.0	277.8
12.5°	274.0	274.0	277.8	276.5	275.2
15°	271.5	271.5	274.0	272.7	271.5
17.5°	267.7	267.7	270.2	269.0	267.7
20°	261.4	260.2	263.9	261.4	261.4
22.5°	252.6	252.6	256.4	253.9	253.9
25°	246.3	247.6	250.1	248.8	247.6
27.5°	240.1	241.3	242.6	242.6	241.3
30°	233.8	233.8	235.0	233.8	233.8
32.5°	225.0	225.0	227.5	226.2	226.2
35°	216.2	217.4	218.7	217.4	217.4
37.5°	208.6	208.6	211.1	209.9	209.9
40°	199.8	199.8	202.3	199.8	201.1
42.5°	191.0	191.0	192.3	191.0	192.3
45°	181.0	181.0	182.2	182.2	182.2
47.5°	170.9	170.9	173.4	172.2	172.2
50°	160.9	160.9	163.4	162.1	163.4
52.5°	150.8	150.8	152.1	152.1	152.1
55°	140.8	140.8	142.0	140.8	142.0
57.5°	129.5	129.5	130.7	130.7	130.7
60°	118.1	119.4	119.4	119.4	120.7
62.5°	108.1	108.1	109.3	108.1	109.3
65°	96.8	96.8	98.0	96.8	98.0
67.5°	85.5	85.5	86.7	85.5	86.7
70°	74.2	75.4	75.4	75.4	75.4
72.5°	64.1	64.1	64.1	64.1	64.1
75°	52.8	52.8	54.0	54.0	54.0
77.5°	42.7	42.7	42.7	42.7	42.7
80°	32.7	32.7	32.7	32.7	32.7
82.5°	22.6	22.6	23.9	23.9	23.9
85°	13.8	13.8	13.8	13.8	13.8
87.5°	6.3	6.3	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)