

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: P210268

Luminaire Tested: **SMD4S6927WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210268
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: SMD4S6927WH
Description: 4" Square Surface Mount, 600 lm, 90CRI, 2700K
Light Source: (21) 2700K CCT, 90 CRI LEDS
L130-2790003000W21
Ballast/Driver: Leedarson
LD120-210

Summary

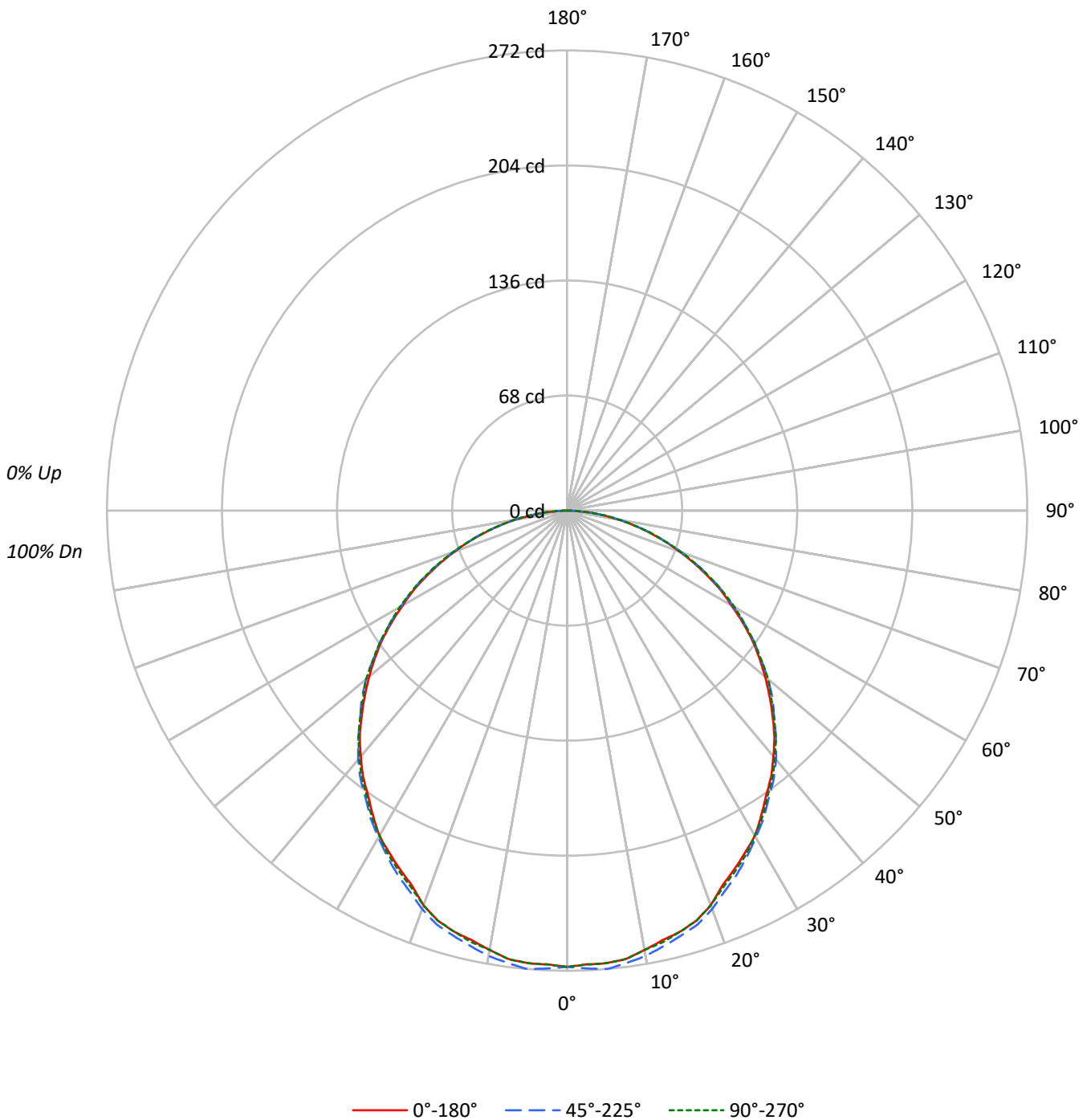
Lumens per Lamp: N/A
Luminaire Lumens: 750.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.5
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: P210268
CATALOG NUMBER: SMD4S6927WH

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°	26658	26658	26658
5°	26641	26988	26641
10°	26467	26828	26467
15°	26370	26616	26370
20°	26107	26360	26107
25°	25509	25891	25640
30°	25326	25463	25326
35°	24760	25050	24905
40°	24477	24787	24632
45°	24015	24183	24183
50°	23481	23850	23850
55°	23023	23230	23230
60°	22180	22417	22635
65°	21494	21774	21774
70°	20345	20692	20692
75°	19133	19591	19591
80°	17645	17645	17645
85°	14857	14857	14857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	3.4
10°-20°	72.9	9.7
20°-30°	108.6	14.5
30°-40°	129.4	17.3
40°-50°	133.2	17.8
50°-60°	119.7	16.0
60°-70°	91.4	12.2
70°-80°	53.7	7.2
80°-90°	15.5	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°	207.1	27.6
0°-40°	336.6	44.9
0°-60°	589.5	78.6
0°-90°	750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	270	270	270	270	270	
5°	268	268	272	270	268	25
15°	258	258	260	259	258	73
25°	234	235	237	236	235	108
35°	205	206	208	206	206	129
45°	172	172	173	173	173	133
55°	134	134	135	134	135	119
65°	92	92	93	92	93	91
75°	50	50	51	51	51	53
85°	13	13	13	13	13	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	269.7	269.7	269.7	269.7	269.7
2.5°	268.5	267.3	270.9	269.7	268.5
5°	268.5	268.5	272.0	269.7	268.5
7.5°	267.3	267.3	269.7	268.5	267.3
10°	263.7	263.7	267.3	264.9	263.7
12.5°	260.1	260.1	263.7	262.5	261.3
15°	257.7	257.7	260.1	258.9	257.7
17.5°	254.1	254.1	256.5	255.3	254.1
20°	248.2	247.0	250.6	248.2	248.2
22.5°	239.8	239.8	243.4	241.0	241.0
25°	233.9	235.1	237.4	236.2	235.1
27.5°	227.9	229.1	230.3	230.3	229.1
30°	221.9	221.9	223.1	221.9	221.9
32.5°	213.6	213.6	216.0	214.8	214.8
35°	205.2	206.4	207.6	206.4	206.4
37.5°	198.1	198.1	200.5	199.3	199.3
40°	189.7	189.7	192.1	189.7	190.9
42.5°	181.4	181.4	182.6	181.4	182.6
45°	171.8	171.8	173.0	173.0	173.0
47.5°	162.3	162.3	164.7	163.5	163.5
50°	152.7	152.7	155.1	153.9	155.1
52.5°	143.2	143.2	144.4	144.4	144.4
55°	133.6	133.6	134.8	133.6	134.8
57.5°	122.9	122.9	124.1	124.1	124.1
60°	112.2	113.4	113.4	113.4	114.5
62.5°	102.6	102.6	103.8	102.6	103.8
65°	91.9	91.9	93.1	91.9	93.1
67.5°	81.1	81.1	82.3	81.1	82.3
70°	70.4	71.6	71.6	71.6	71.6
72.5°	60.9	60.9	60.9	60.9	60.9
75°	50.1	50.1	51.3	51.3	51.3
77.5°	40.6	40.6	40.6	40.6	40.6
80°	31.0	31.0	31.0	31.0	31.0
82.5°	21.5	21.5	22.7	22.7	22.7
85°	13.1	13.1	13.1	13.1	13.1
87.5°	6.0	6.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)