

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: P210270

Luminaire Tested: **SMD4S6935WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210270
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: SMD4S6935WH
Description: 4" Square Surface Mount, 600 lm, 90CRI, 3500K
Light Source: (21) 3500K CCT, 90 CRI LEDS
L130-3590003000W21
Ballast/Driver: Leedarson
LD120-210

Summary

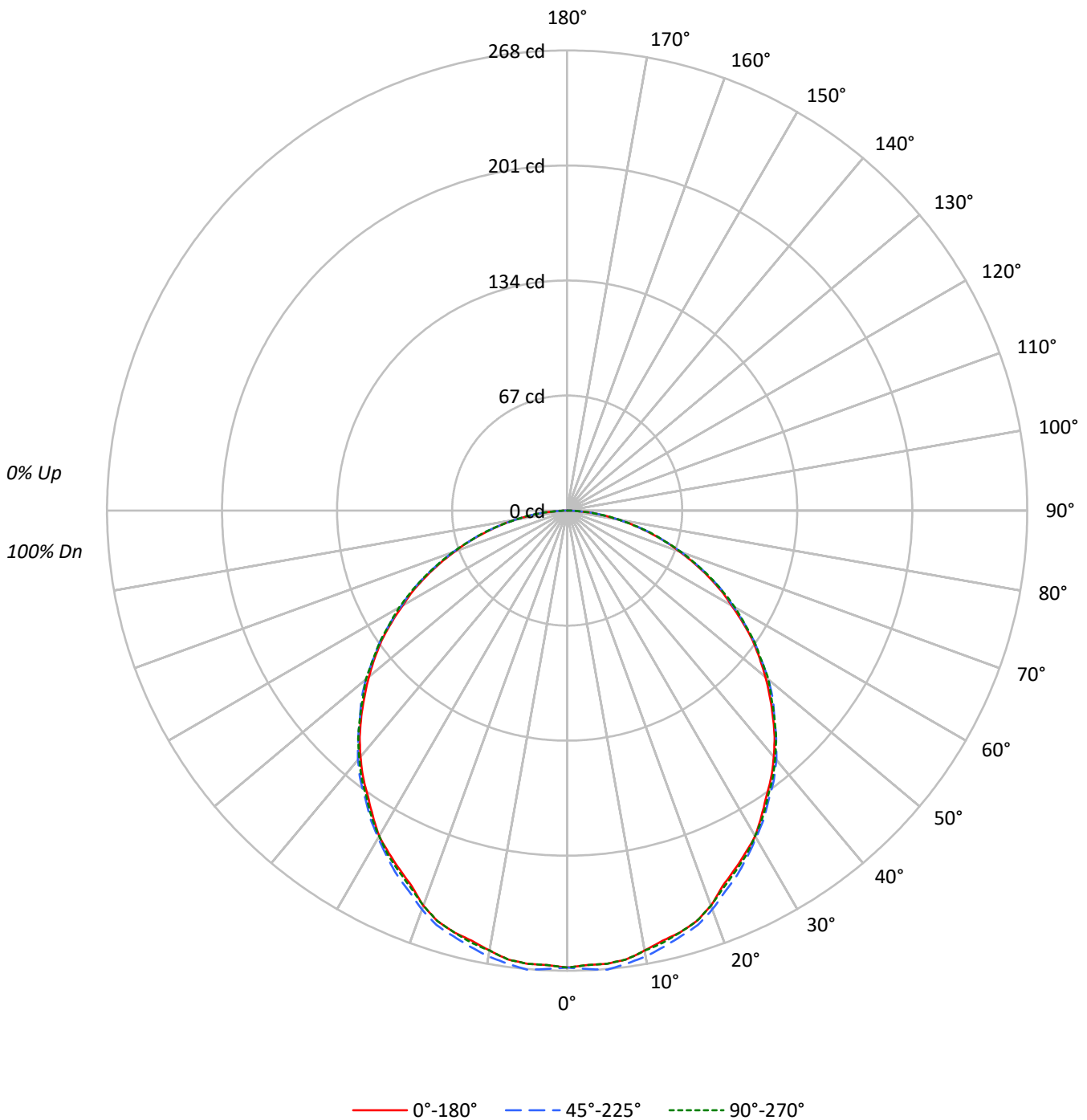
Lumens per Lamp: N/A
Luminaire Lumens: 739.9 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P210270
CATALOG NUMBER: SMD4S6935WH

Luminous Intensity Polar Plot





TEST NUMBER: P210270

CATALOG NUMBER: SMD4S6935WH

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	89	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°	26302	26302	26302
5°	26283	26631	26283
10°	26115	26467	26115
15°	26022	26258	26022
20°	25760	26002	25760
25°	25160	25553	25291
30°	24995	25121	24995
35°	24434	24712	24579
40°	24154	24451	24309
45°	23693	23861	23861
50°	23173	23527	23527
55°	22730	22919	22919
60°	21884	22101	22338
65°	21190	21470	21470
70°	20085	20403	20403
75°	18866	19324	19324
80°	17418	17418	17418
85°	14630	14630	14630



TEST NUMBER: P210270

CATALOG NUMBER: SMD4S6935WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	3.4
10°-20°	72.0	9.7
20°-30°	107.2	14.5
30°-40°	127.7	17.3
40°-50°	131.4	17.8
50°-60°	118.1	16.0
60°-70°	90.2	12.2
70°-80°	52.9	7.2
80°-90°	15.2	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°	204.4	27.6
0°-40°	332.1	44.9
0°-60°	581.6	78.6
0°-90°	739.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	739.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	266	266	266	266	266	
5°	265	265	268	266	265	25
15°	254	254	257	256	254	72
25°	231	232	234	233	232	107
35°	202	204	205	204	204	127
45°	170	170	171	171	171	131
55°	132	132	133	132	133	117
65°	91	91	92	91	92	90
75°	49	49	51	51	51	53
85°	13	13	13	13	13	15
90°	0	0	0	0	0	



TEST NUMBER: P210270

CATALOG NUMBER: SMD4S6935WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	266.1	266.1	266.1	266.1	266.1
2.5°	264.9	263.7	267.2	266.1	264.9
5°	264.9	264.9	268.4	266.1	264.9
7.5°	263.7	263.7	266.1	264.9	263.7
10°	260.2	260.2	263.7	261.4	260.2
12.5°	256.6	256.6	260.2	259.0	257.8
15°	254.3	254.3	256.6	255.5	254.3
17.5°	250.8	250.8	253.1	251.9	250.8
20°	244.9	243.7	247.2	244.9	244.9
22.5°	236.6	236.6	240.2	237.8	237.8
25°	230.7	231.9	234.3	233.1	231.9
27.5°	224.9	226.0	227.2	227.2	226.0
30°	219.0	219.0	220.1	219.0	219.0
32.5°	210.7	210.7	213.1	211.9	211.9
35°	202.5	203.7	204.8	203.7	203.7
37.5°	195.4	195.4	197.8	196.6	196.6
40°	187.2	187.2	189.5	187.2	188.4
42.5°	178.9	178.9	180.1	178.9	180.1
45°	169.5	169.5	170.7	170.7	170.7
47.5°	160.1	160.1	162.5	161.3	161.3
50°	150.7	150.7	153.0	151.9	153.0
52.5°	141.3	141.3	142.4	142.4	142.4
55°	131.9	131.9	133.0	131.9	133.0
57.5°	121.3	121.3	122.4	122.4	122.4
60°	110.7	111.8	111.8	111.8	113.0
62.5°	101.2	101.2	102.4	101.2	102.4
65°	90.6	90.6	91.8	90.6	91.8
67.5°	80.1	80.1	81.2	80.1	81.2
70°	69.5	70.6	70.6	70.6	70.6
72.5°	60.0	60.0	60.0	60.0	60.0
75°	49.4	49.4	50.6	50.6	50.6
77.5°	40.0	40.0	40.0	40.0	40.0
80°	30.6	30.6	30.6	30.6	30.6
82.5°	21.2	21.2	22.4	22.4	22.4
85°	12.9	12.9	12.9	12.9	12.9
87.5°	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)