

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: P210271

Luminaire Tested: **SMD4S6940WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210271
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: SMD4S6940WH
Description: 4" Square Surface Mount, 600 lm, 90CRI, 4000K
Light Source: (21) 4000K CCT, 90 CRI LEDS
L130-4090003000W21
Ballast/Driver: Leedarson
LD120-210

Summary

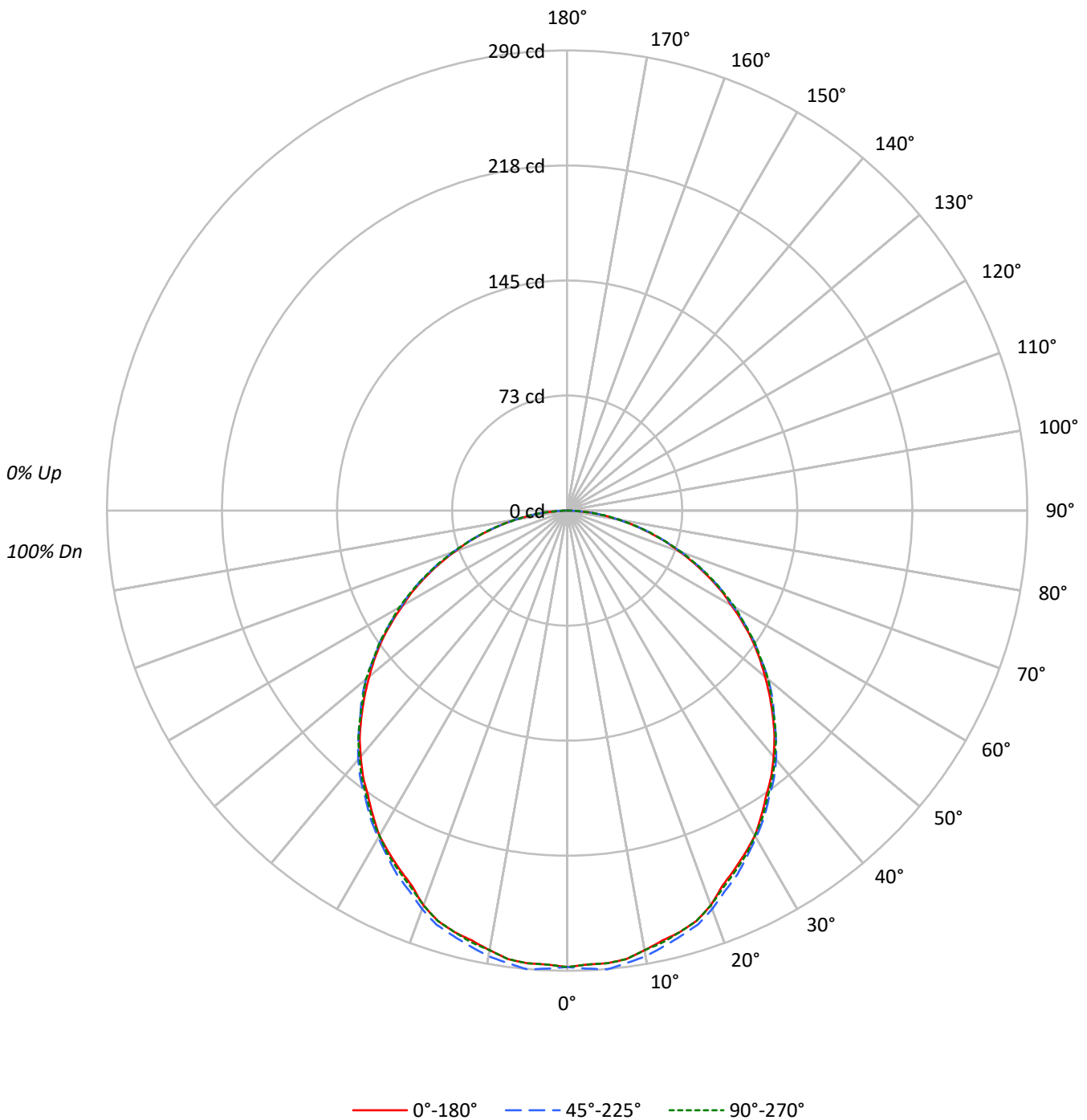
Lumens per Lamp: N/A
Luminaire Lumens: 800.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 10.1
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°	28427	28427	28427
5°	28417	28794	28417
10°	28233	28615	28233
15°	28130	28396	28130
20°	27843	28116	27843
25°	27211	27625	27341
30°	27015	27164	27015
35°	26413	26727	26570
40°	26116	26438	26270
45°	25622	25790	25790
50°	25049	25449	25449
55°	24556	24780	24780
60°	23643	23900	24157
65°	22920	23224	23224
70°	21704	22079	22079
75°	20431	20890	20890
80°	18841	18841	18841
85°	15877	15877	15877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	3.4
10°-20°	77.8	9.7
20°-30°	115.9	14.5
30°-40°	138.1	17.3
40°-50°	142.1	17.8
50°-60°	127.7	16.0
60°-70°	97.5	12.2
70°-80°	57.3	7.2
80°-90°	16.5	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°	221.0	27.6
0°-40°	359.0	44.9
0°-60°	628.8	78.6
0°-90°	800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	288	288	288	288	288	
5°	286	286	290	288	286	27
15°	275	275	278	276	275	77
25°	250	251	253	252	251	115
35°	219	220	222	220	220	137
45°	183	183	184	184	184	141
55°	142	142	144	142	144	127
65°	98	98	99	98	99	97
75°	54	54	55	55	55	57
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°	287.6	287.6	287.6	287.6	287.6
2.5°	286.4	285.1	288.9	287.6	286.4
5°	286.4	286.4	290.2	287.6	286.4
7.5°	285.1	285.1	287.6	286.4	285.1
10°	281.3	281.3	285.1	282.5	281.3
12.5°	277.5	277.5	281.3	280.0	278.7
15°	274.9	274.9	277.5	276.2	274.9
17.5°	271.1	271.1	273.6	272.4	271.1
20°	264.7	263.5	267.3	264.7	264.7
22.5°	255.8	255.8	259.6	257.1	257.1
25°	249.5	250.7	253.3	252.0	250.7
27.5°	243.1	244.4	245.6	245.6	244.4
30°	236.7	236.7	238.0	236.7	236.7
32.5°	227.8	227.8	230.4	229.1	229.1
35°	218.9	220.2	221.5	220.2	220.2
37.5°	211.3	211.3	213.8	212.5	212.5
40°	202.4	202.4	204.9	202.4	203.6
42.5°	193.5	193.5	194.7	193.5	194.7
45°	183.3	183.3	184.5	184.5	184.5
47.5°	173.1	173.1	175.6	174.4	174.4
50°	162.9	162.9	165.5	164.2	165.5
52.5°	152.7	152.7	154.0	154.0	154.0
55°	142.5	142.5	143.8	142.5	143.8
57.5°	131.1	131.1	132.4	132.4	132.4
60°	119.6	120.9	120.9	120.9	122.2
62.5°	109.5	109.5	110.7	109.5	110.7
65°	98.0	98.0	99.3	98.0	99.3
67.5°	86.5	86.5	87.8	86.5	87.8
70°	75.1	76.4	76.4	76.4	76.4
72.5°	64.9	64.9	64.9	64.9	64.9
75°	53.5	53.5	54.7	54.7	54.7
77.5°	43.3	43.3	43.3	43.3	43.3
80°	33.1	33.1	33.1	33.1	33.1
82.5°	22.9	22.9	24.2	24.2	24.2
85°	14.0	14.0	14.0	14.0	14.0
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)