

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: P210258

Luminaire Tested: **SMD4R6927WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28194-R2)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD4R6927WH
Description: 4" Round Surface Mount, 600 lm, 90CRI, 2700K
Light Source: (28) 2700K CCT, 90 CRI LEDS
L130-2790003000W21
Ballast/Driver: Leedarson
LD120-210

Summary

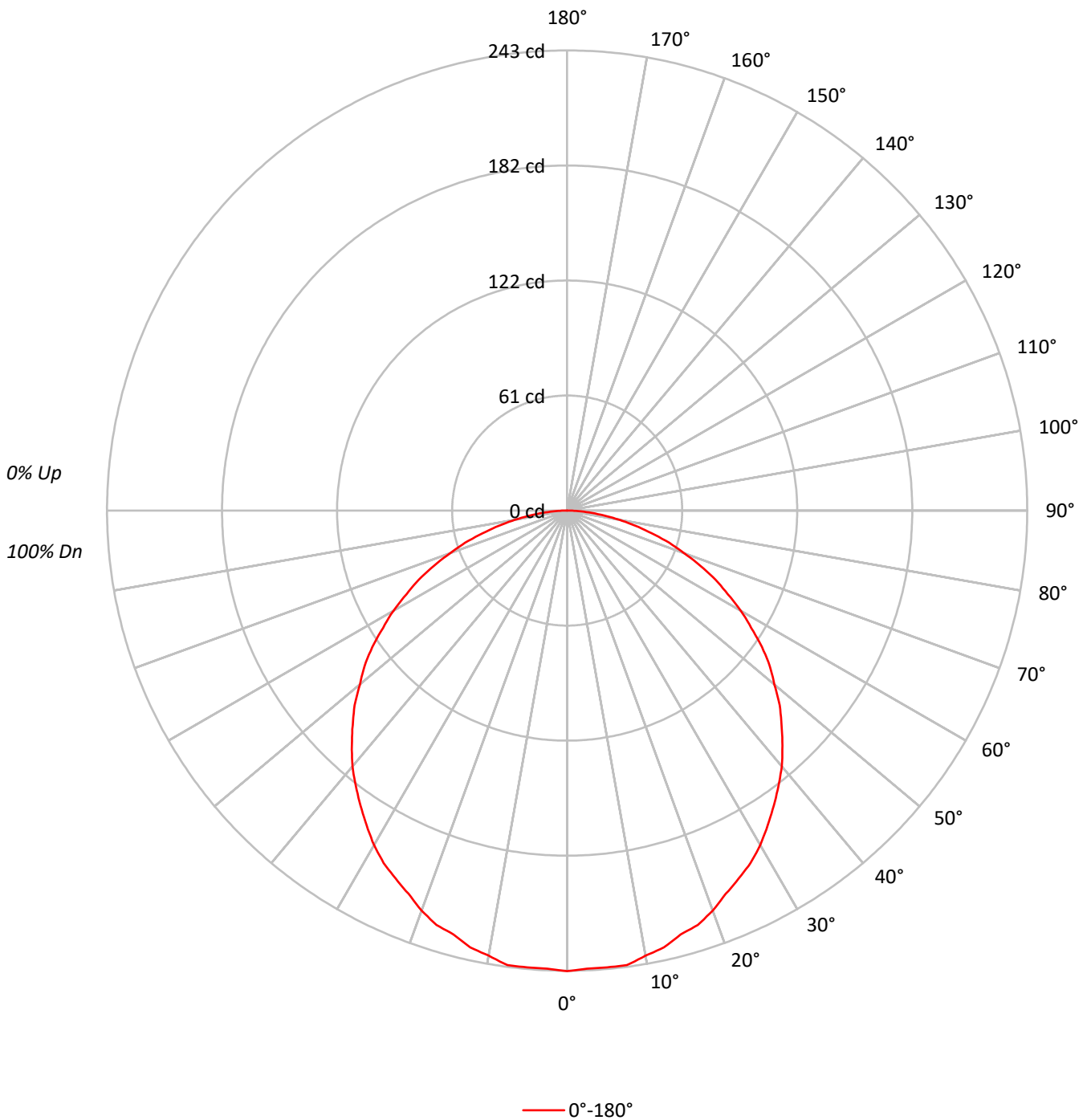
Lumens per Lamp: N/A
Luminaire Lumens: 690.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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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	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	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	53		64	58	53		62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24038
5°	24021
10°	23948
15°	23710
20°	23646
25°	23383
30°	23283
35°	22950
40°	22761
45°	22393
50°	21974
55°	21644
60°	20955
65°	20231
70°	18987
75°	17605
80°	15767
85°	13042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	3.3
10°-20°	65.6	9.5
20°-30°	99.0	14.3
30°-40°	119.1	17.3
40°-50°	123.6	17.9
50°-60°	111.9	16.2
60°-70°	85.2	12.3
70°-80°	49.1	7.1
80°-90°	13.5	2.0
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°	187.7	27.2
0°-40°	306.8	44.5
0°-60°	542.3	78.6
0°-90°	690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	243	
5°	242	23
15°	232	66
25°	214	99
35°	190	119
45°	160	124
55°	126	112
65°	86	85
75°	46	49
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	243.2
2.5°	242.1
5°	242.1
7.5°	242.1
10°	238.6
12.5°	236.3
15°	231.7
17.5°	229.4
20°	224.8
22.5°	219.0
25°	214.4
27.5°	209.8
30°	204.0
32.5°	197.1
35°	190.2
37.5°	183.3
40°	176.4
42.5°	168.3
45°	160.2
47.5°	152.2
50°	142.9
52.5°	134.9
55°	125.6
57.5°	115.3
60°	106.0
62.5°	95.7
65°	86.5
67.5°	76.1
70°	65.7
72.5°	56.5
75°	46.1
77.5°	36.9
80°	27.7
82.5°	19.6
85°	11.5
87.5°	4.6
90°	0.0

(END OF REPORT)