

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: P210262

Luminaire Tested: **SMD4R6950WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210262
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: SMD4R6950WH
Description: 4" Round Surface Mount, 600 lm, 90CRI, 5000K
Light Source: (28) 5000K CCT, 90 CRI LEDS
L130-5090003000W21
Ballast/Driver: Leedarson
LD120-210

Summary

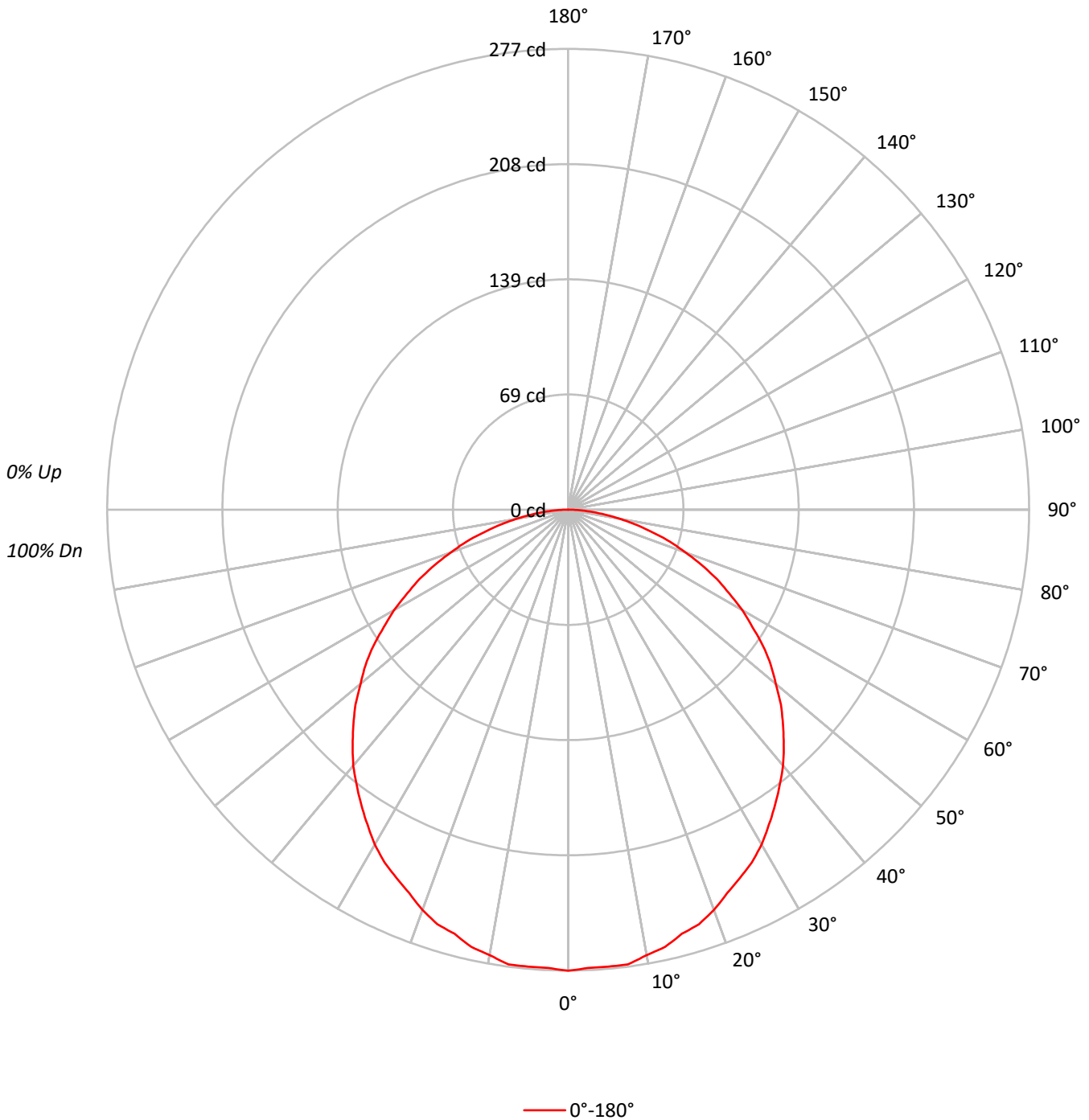
Lumens per Lamp: N/A
Luminaire Lumens: 785.9 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.7
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°	27389
5°	27355
10°	27280
15°	27005
20°	26928
25°	26633
30°	26525
35°	26148
40°	25922
45°	25511
50°	25034
55°	24660
60°	23880
65°	23037
70°	21617
75°	20050
80°	17930
85°	14857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	3.3
10°-20°	74.8	9.5
20°-30°	112.7	14.3
30°-40°	135.7	17.3
40°-50°	140.8	17.9
50°-60°	127.4	16.2
60°-70°	97.0	12.3
70°-80°	55.9	7.1
80°-90°	15.4	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°	213.7	27.2
0°-40°	349.5	44.5
0°-60°	617.7	78.6
0°-90°	785.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	785.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	277	
5°	276	26
15°	264	75
25°	244	113
35°	217	136
45°	182	141
55°	143	127
65°	98	97
75°	52	56
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	277.1
2.5°	275.7
5°	275.7
7.5°	275.7
10°	271.8
12.5°	269.2
15°	263.9
17.5°	261.3
20°	256.0
22.5°	249.5
25°	244.2
27.5°	239.0
30°	232.4
32.5°	224.5
35°	216.7
37.5°	208.8
40°	200.9
42.5°	191.7
45°	182.5
47.5°	173.3
50°	162.8
52.5°	153.6
55°	143.1
57.5°	131.3
60°	120.8
62.5°	109.0
65°	98.5
67.5°	86.7
70°	74.8
72.5°	64.3
75°	52.5
77.5°	42.0
80°	31.5
82.5°	22.3
85°	13.1
87.5°	5.3
90°	0.0

(END OF REPORT)