

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 COMMERCIAL

Report Number: P593061

Luminaire Tested: **HC610D010-HM60525850-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525850-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1130.4 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

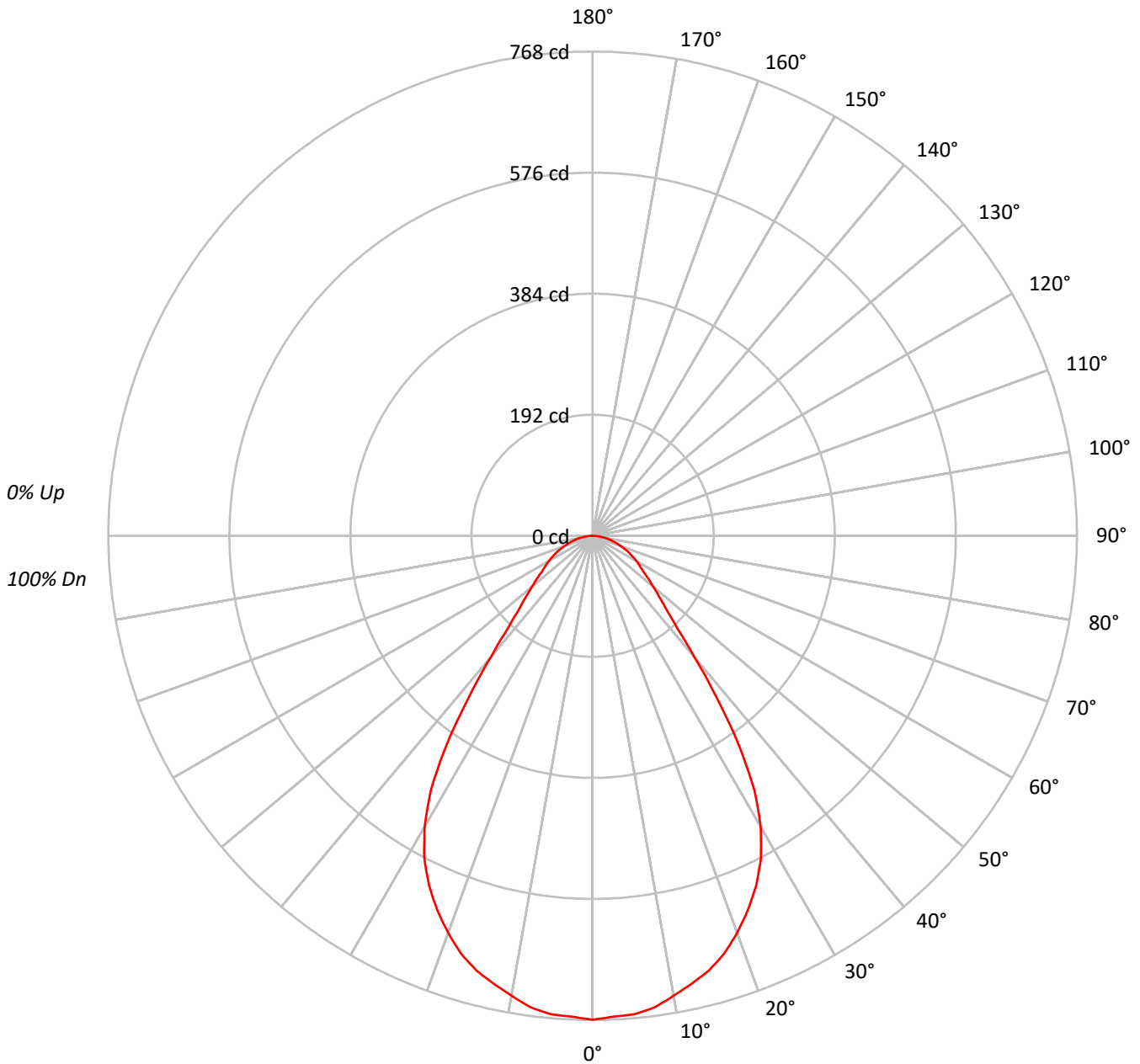
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42080
5°	41922
10°	41226
15°	40494
20°	39093
25°	37073
30°	33720
35°	26950
40°	17977
45°	12815
50°	10678
55°	9309
60°	8782
65°	8276
70°	7597
75°	7096
80°	6472
85°	5724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	6.4
10°-20°	200.3	17.7
20°-30°	280.0	24.8
30°-40°	246.6	21.8
40°-50°	133.2	11.8
50°-60°	89.1	7.9
60°-70°	63.1	5.6
70°-80°	35.5	3.1
80°-90°	10.4	0.9
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°	552.4	48.9
0°-40°	799.0	70.7
0°-60°	1021.3	90.4
0°-90°	1130.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	768	
5°	762	72
15°	714	200
25°	613	280
35°	403	247
45°	165	133
55°	97	89
65°	64	63
75°	34	36
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	767.6
2.5°	763.4
5°	761.8
7.5°	754.5
10°	740.6
12.5°	727.4
15°	713.5
17.5°	694.7
20°	670.1
22.5°	643.2
25°	612.9
27.5°	577.8
30°	532.7
32.5°	477.0
35°	402.7
37.5°	321.6
40°	251.2
42.5°	198.0
45°	165.3
47.5°	143.2
50°	125.2
52.5°	110.5
55°	97.4
57.5°	88.4
60°	80.1
62.5°	72.0
65°	63.8
67.5°	55.7
70°	47.4
72.5°	40.1
75°	33.5
77.5°	27.1
80°	20.5
82.5°	14.7
85°	9.1
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)