

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: P582939

Luminaire Tested: **HC605D010-HM60525930-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582939
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: HC605D010-HM60525930-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 565.1 lumens
Efficiency: N/A
Efficacy: 94.2 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

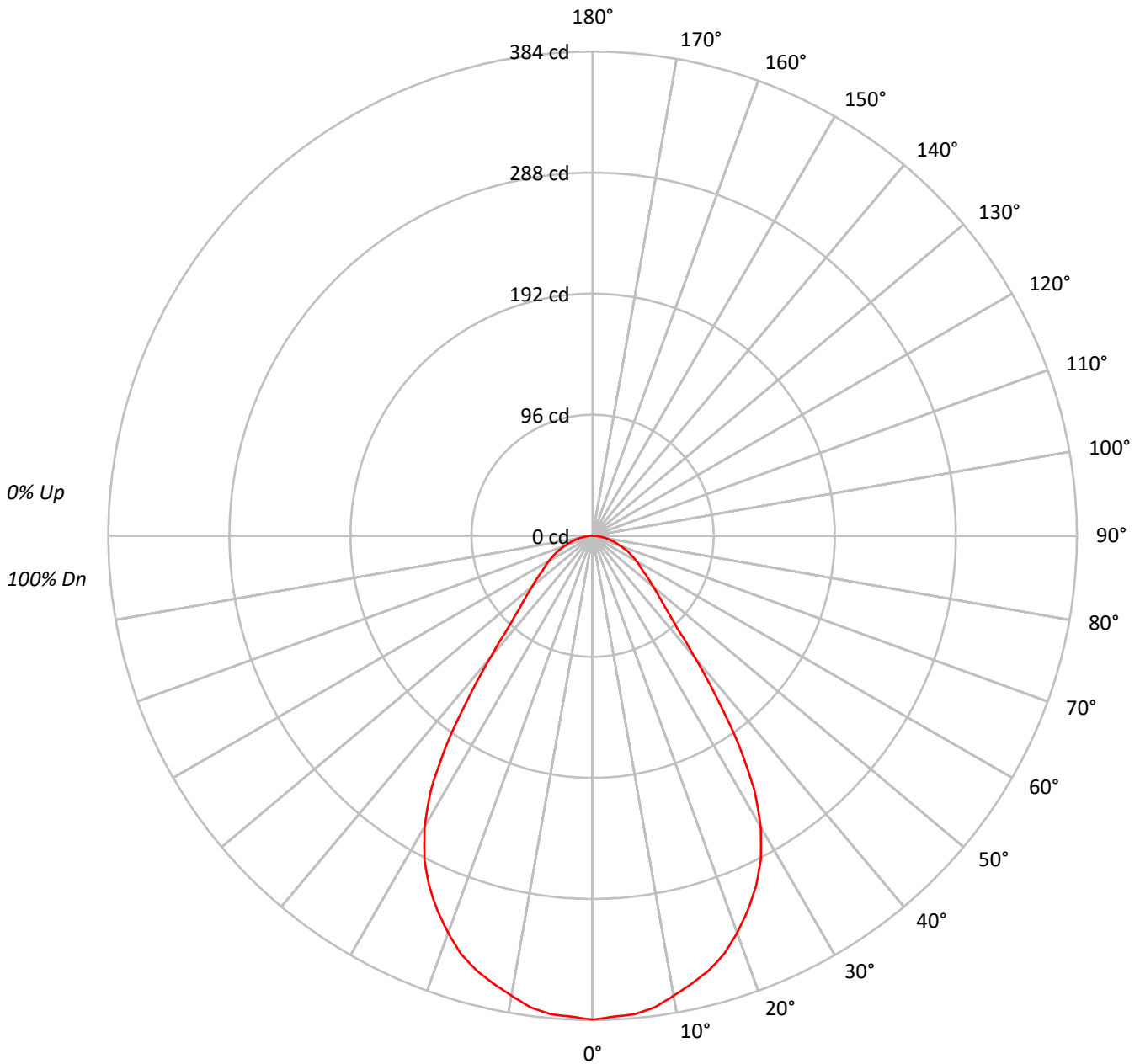
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	21034
5°	20961
10°	20613
15°	20244
20°	19543
25°	18539
30°	16857
35°	13472
40°	8995
45°	6404
50°	5339
55°	4655
60°	4397
65°	4138
70°	3799
75°	3537
80°	3252
85°	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	6.4
10°-20°	100.2	17.7
20°-30°	140.0	24.8
30°-40°	123.3	21.8
40°-50°	66.6	11.8
50°-60°	44.6	7.9
60°-70°	31.6	5.6
70°-80°	17.7	3.1
80°-90°	5.2	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°	276.2	48.9
0°-40°	399.5	70.7
0°-60°	510.7	90.4
0°-90°	565.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	384	
5°	381	36
15°	357	100
25°	306	140
35°	201	123
45°	83	67
55°	49	45
65°	32	32
75°	17	18
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	383.7
2.5°	381.7
5°	380.9
7.5°	377.2
10°	370.3
12.5°	363.7
15°	356.7
17.5°	347.4
20°	335.0
22.5°	321.6
25°	306.5
27.5°	288.8
30°	266.3
32.5°	238.5
35°	201.3
37.5°	160.8
40°	125.7
42.5°	99.0
45°	82.6
47.5°	71.6
50°	62.6
52.5°	55.3
55°	48.7
57.5°	44.2
60°	40.1
62.5°	36.0
65°	31.9
67.5°	27.8
70°	23.7
72.5°	20.0
75°	16.7
77.5°	13.4
80°	10.3
82.5°	7.3
85°	4.5
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)