

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: P593010

Luminaire Tested: **HC605D010-HM60525950-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC605D010-HM60525950-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 636.8 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

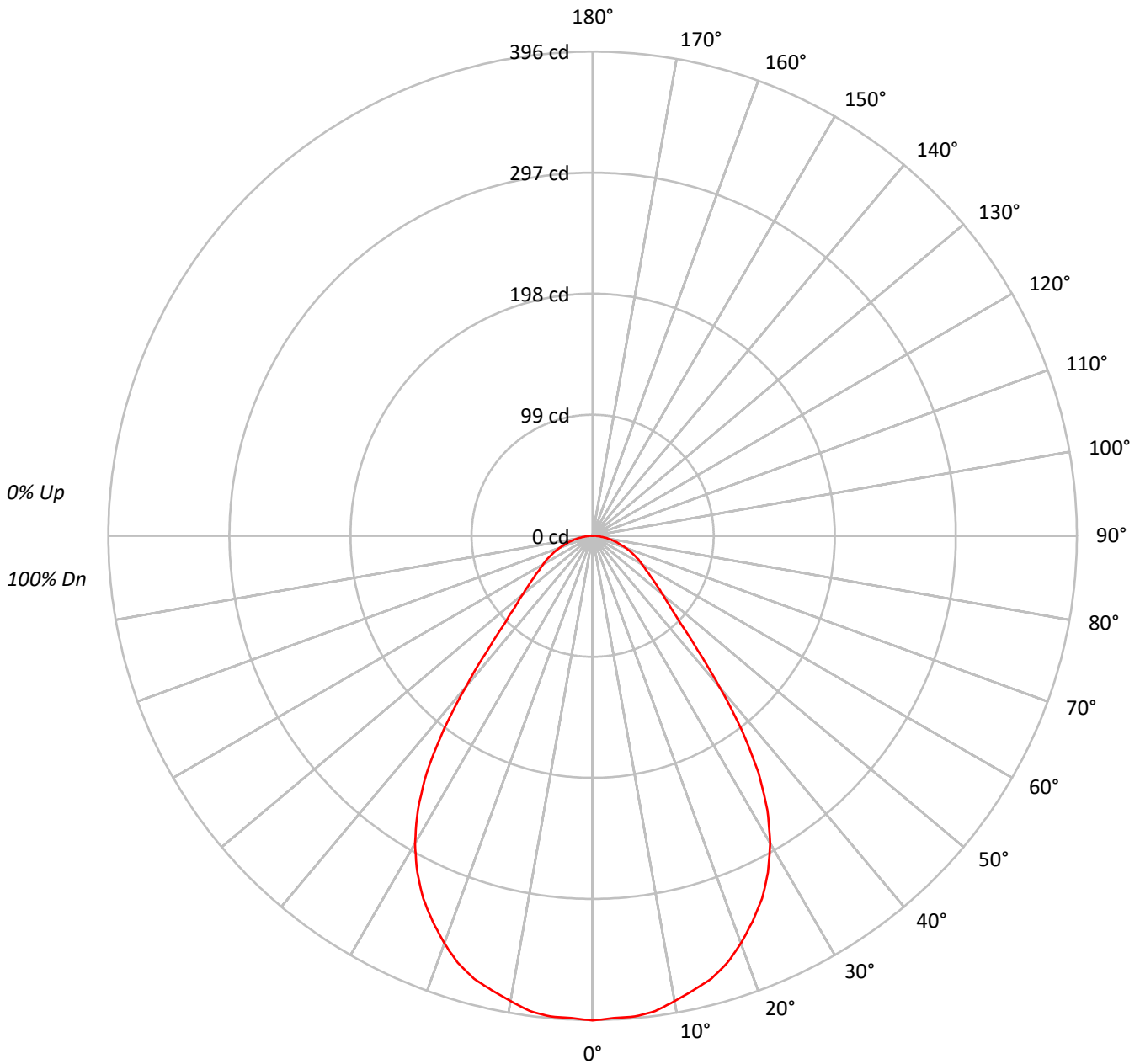
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	21731
5°	21720
10°	21515
15°	21283
20°	20687
25°	19816
30°	18383
35°	15821
40°	11550
45°	7908
50°	6362
55°	5543
60°	5120
65°	4864
70°	4552
75°	4257
80°	3852
85°	3271



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.4	5.9
10°-20°	105.3	16.5
20°-30°	149.8	23.5
30°-40°	144.2	22.6
40°-50°	83.0	13.0
50°-60°	52.6	8.3
60°-70°	37.2	5.8
70°-80°	21.3	3.3
80°-90°	6.0	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°	292.6	45.9
0°-40°	436.8	68.6
0°-60°	572.4	89.9
0°-90°	636.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	636.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	396	
5°	395	37
15°	375	105
25°	328	150
35°	236	144
45°	102	83
55°	58	53
65°	38	37
75°	20	21
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	396.4
2.5°	394.7
5°	394.7
7.5°	392.1
10°	386.5
12.5°	380.7
15°	375.0
17.5°	366.3
20°	354.6
22.5°	341.5
25°	327.6
27.5°	310.5
30°	290.4
32.5°	266.0
35°	236.4
37.5°	200.2
40°	161.4
42.5°	127.4
45°	102.0
47.5°	85.9
50°	74.6
52.5°	65.4
55°	58.0
57.5°	51.4
60°	46.7
62.5°	42.3
65°	37.5
67.5°	33.1
70°	28.4
72.5°	24.0
75°	20.1
77.5°	16.2
80°	12.2
82.5°	8.7
85°	5.2
87.5°	2.1
90°	0.0



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— 0°-180°







(END OF REPORT)