

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: P582950

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582950  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC605D010-HM60525930-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 643.7 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

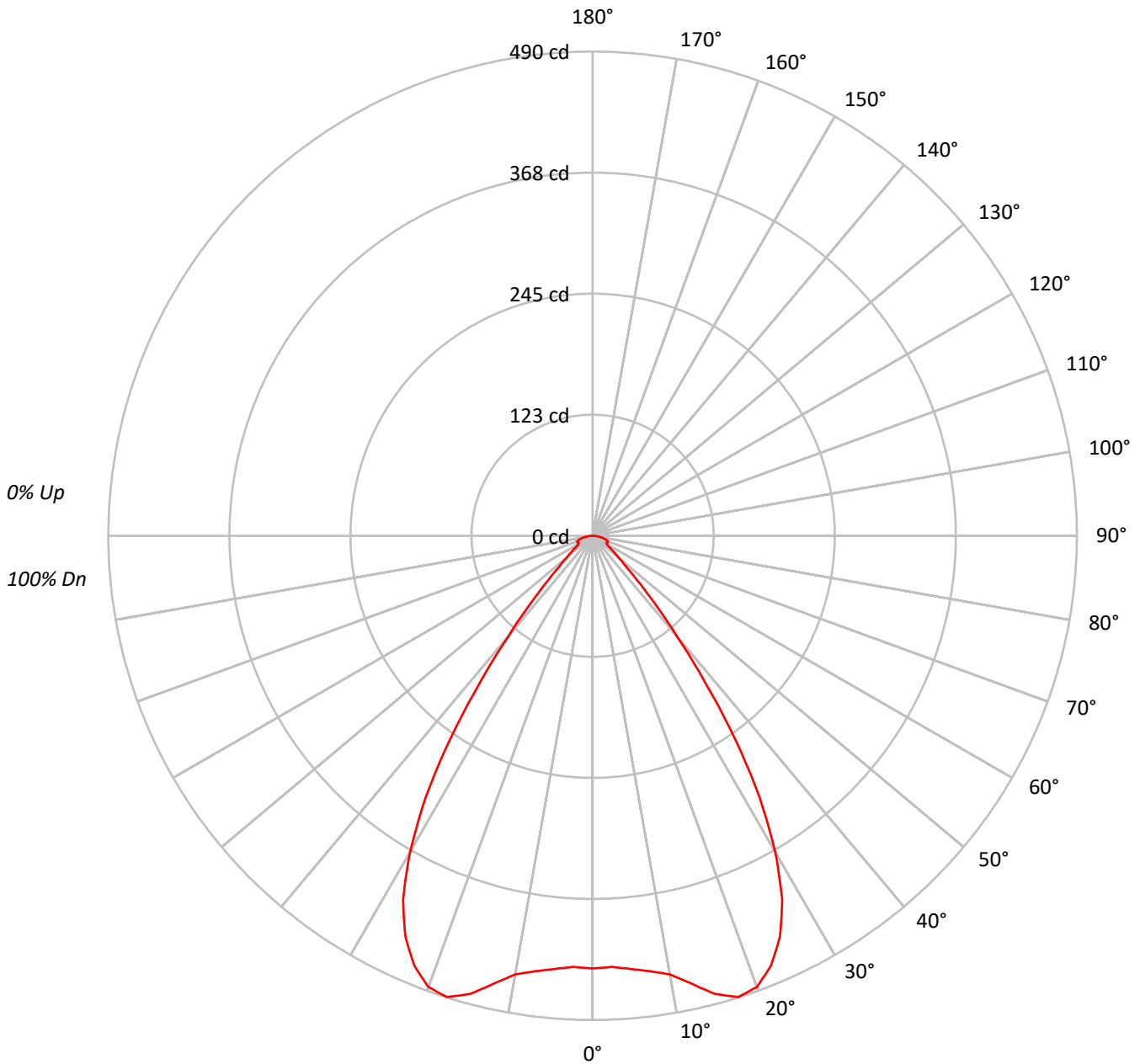
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

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

	0°
0°	24011
5°	24213
10°	25083
15°	27248
20°	28347
25°	27110
30°	23396
35°	16851
40°	9496
45°	4915
50°	2934
55°	2112
60°	1798
65°	2062
70°	2629
75°	2775
80°	2715
85°	2579



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.3	6.6
10°-20°	135.4	21.0
20°-30°	202.4	31.4
30°-40°	154.7	24.0
40°-50°	54.0	8.4
50°-60°	20.6	3.2
60°-70°	16.1	2.5
70°-80°	13.7	2.1
80°-90°	4.4	0.7
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°	380.1	59.1
0°-40°	534.9	83.1
0°-60°	609.5	94.7
0°-90°	643.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	643.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	438	
5°	440	42
15°	480	135
25°	448	202
35°	252	155
45°	63	54
55°	22	21
65°	16	16
75°	13	14
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	438.0
2.5°	436.7
5°	440.0
7.5°	444.5
10°	450.6
12.5°	464.5
15°	480.1
17.5°	489.5
20°	485.9
22.5°	471.1
25°	448.2
27.5°	415.4
30°	369.6
32.5°	314.7
35°	251.8
37.5°	186.7
40°	132.7
42.5°	92.9
45°	63.4
47.5°	44.6
50°	34.4
52.5°	27.0
55°	22.1
57.5°	18.0
60°	16.4
62.5°	15.9
65°	15.9
67.5°	16.8
70°	16.4
72.5°	15.1
75°	13.1
77.5°	11.1
80°	8.6
82.5°	6.1
85°	4.1
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)