

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: P581833

Luminaire Tested: **HC615D010-HM60525940-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581833  
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: HC615D010-HM60525940-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1422.5 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

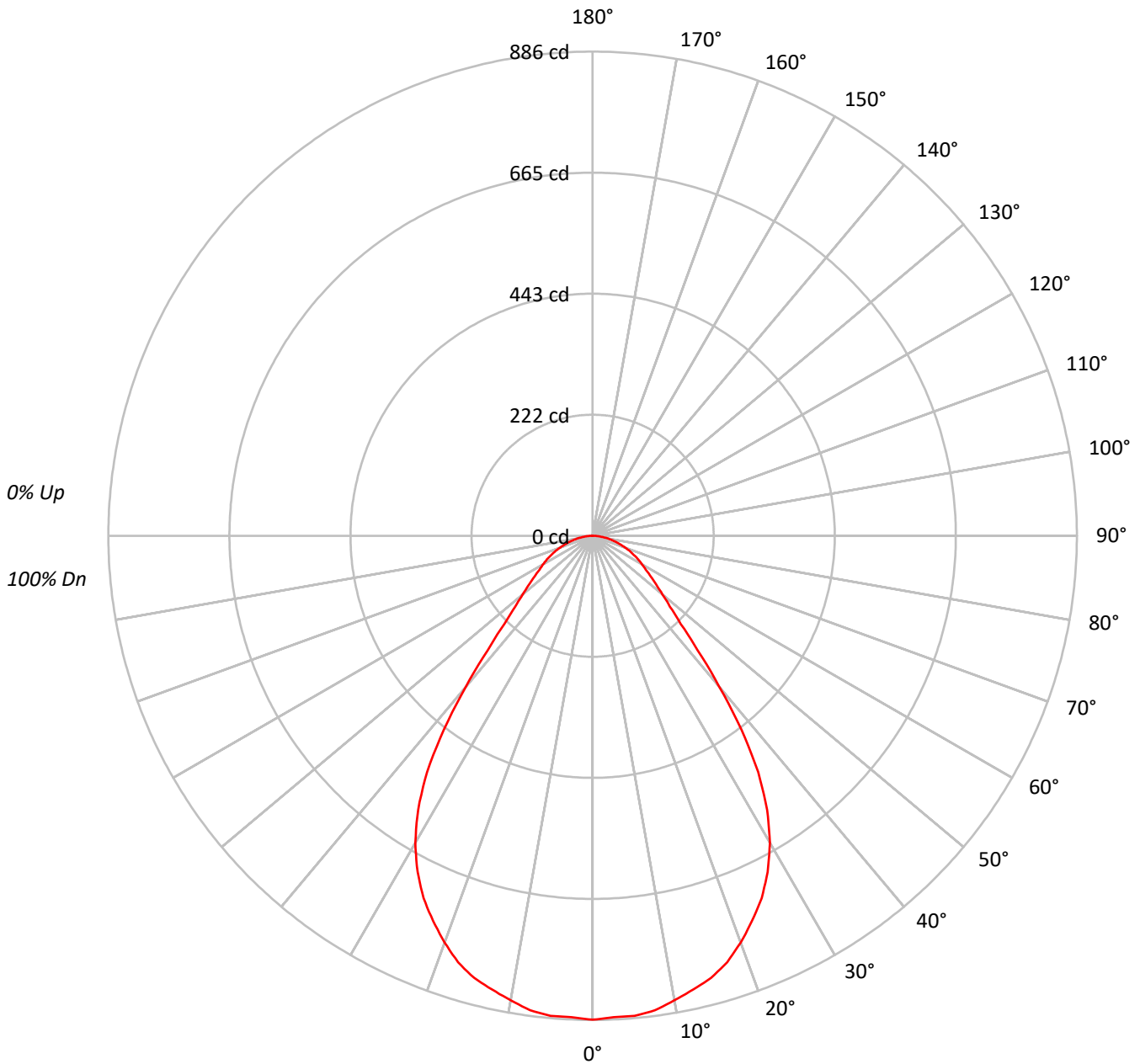
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

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

	0°
0°	48543
5°	48520
10°	48045
15°	47543
20°	46204
25°	44253
30°	41070
35°	35335
40°	25798
45°	17669
50°	14208
55°	12387
60°	11425
65°	10870
70°	10146
75°	9489
80°	8587
85°	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.6	5.9
10°-20°	235.3	16.5
20°-30°	334.6	23.5
30°-40°	322.2	22.6
40°-50°	185.3	13.0
50°-60°	117.5	8.3
60°-70°	83.1	5.8
70°-80°	47.4	3.3
80°-90°	13.5	1.0
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°	653.5	45.9
0°-40°	975.7	68.6
0°-60°	1278.5	89.9
0°-90°	1422.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	886	
5°	882	84
15°	838	235
25°	732	335
35°	528	322
45°	228	185
55°	130	117
65°	84	83
75°	45	47
85°	12	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	885.5
2.5°	881.7
5°	881.7
7.5°	875.8
10°	863.1
12.5°	850.5
15°	837.7
17.5°	818.3
20°	792.0
22.5°	762.7
25°	731.6
27.5°	693.6
30°	648.8
32.5°	594.3
35°	528.0
37.5°	447.2
40°	360.5
42.5°	284.4
45°	227.9
47.5°	191.9
50°	166.6
52.5°	146.1
55°	129.6
57.5°	115.0
60°	104.2
62.5°	94.5
65°	83.8
67.5°	74.0
70°	63.3
72.5°	53.6
75°	44.8
77.5°	36.1
80°	27.2
82.5°	19.5
85°	11.7
87.5°	4.9
90°	0.0



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— 0°-180°







(END OF REPORT)