

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: P581769

Luminaire Tested: **HC615D010-HM60525927-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581769  
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: HC615D010-HM60525927-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1156.4 lumens  
Efficiency: N/A  
Efficacy: 82.6 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

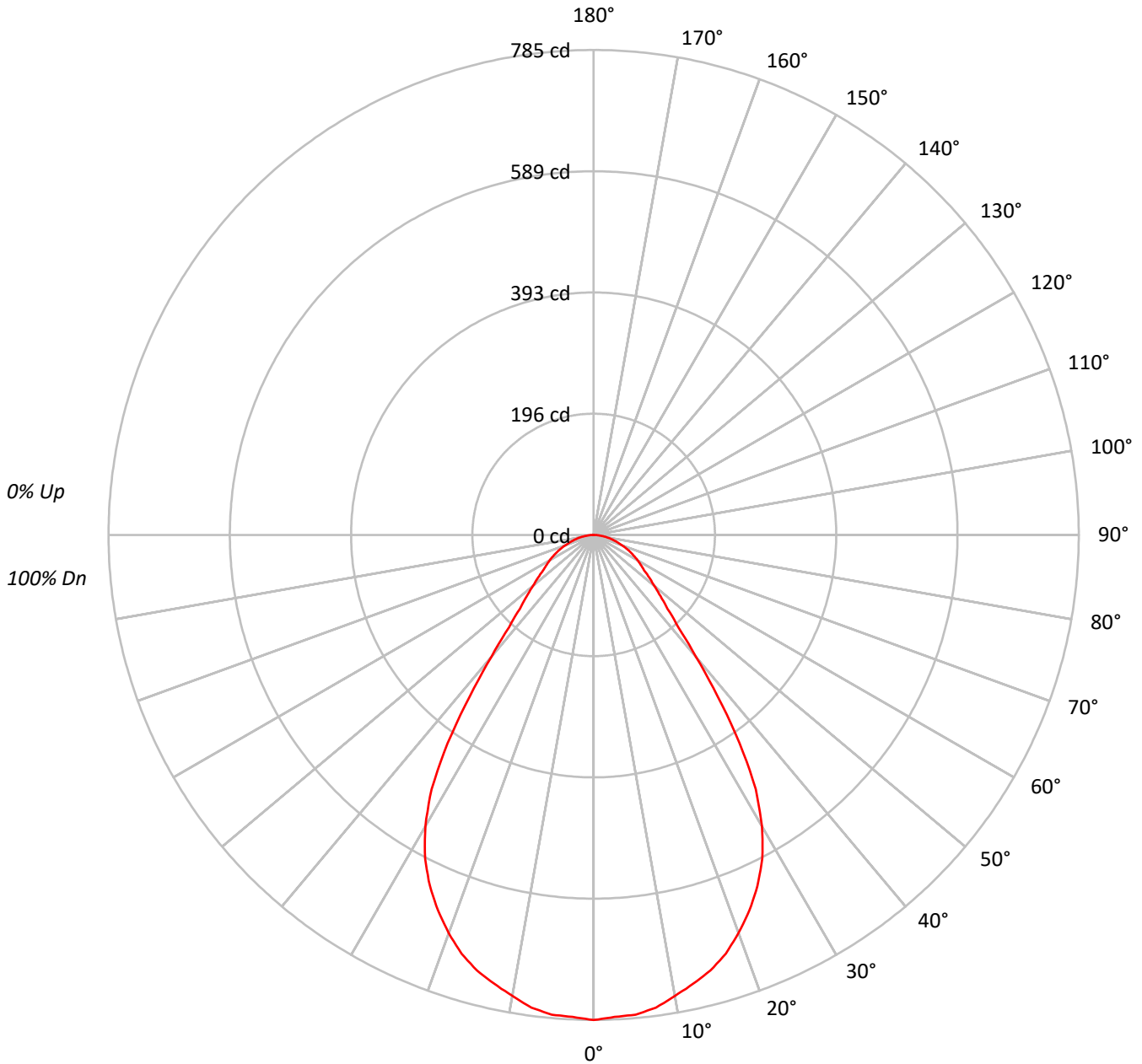
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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°	43045
5°	42890
10°	42172
15°	41425
20°	40003
25°	37926
30°	34493
35°	27566
40°	18392
45°	13110
50°	10916
55°	9529
60°	9001
65°	8470
70°	7790
75°	7265
80°	6598
85°	5787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.7	6.4
10°-20°	205.0	17.7
20°-30°	286.4	24.8
30°-40°	252.3	21.8
40°-50°	136.3	11.8
50°-60°	91.2	7.9
60°-70°	64.6	5.6
70°-80°	36.3	3.1
80°-90°	10.6	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°	565.1	48.9
0°-40°	817.4	70.7
0°-60°	1044.9	90.4
0°-90°	1156.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	785	
5°	779	74
15°	730	205
25°	627	286
35°	412	252
45°	169	136
55°	100	91
65°	65	65
75°	34	36
85°	9	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	785.2
2.5°	781.0
5°	779.4
7.5°	771.8
10°	757.6
12.5°	744.2
15°	729.9
17.5°	710.7
20°	685.7
22.5°	658.0
25°	627.0
27.5°	591.0
30°	544.9
32.5°	488.0
35°	411.9
37.5°	329.0
40°	257.0
42.5°	202.6
45°	169.1
47.5°	146.5
50°	128.0
52.5°	113.0
55°	99.7
57.5°	90.5
60°	82.1
62.5°	73.7
65°	65.3
67.5°	57.0
70°	48.6
72.5°	41.0
75°	34.3
77.5°	27.6
80°	20.9
82.5°	15.1
85°	9.2
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)