

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: P581814

Luminaire Tested: **HC615D010-HM60525935-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC615D010-HM60525935-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1423.2 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

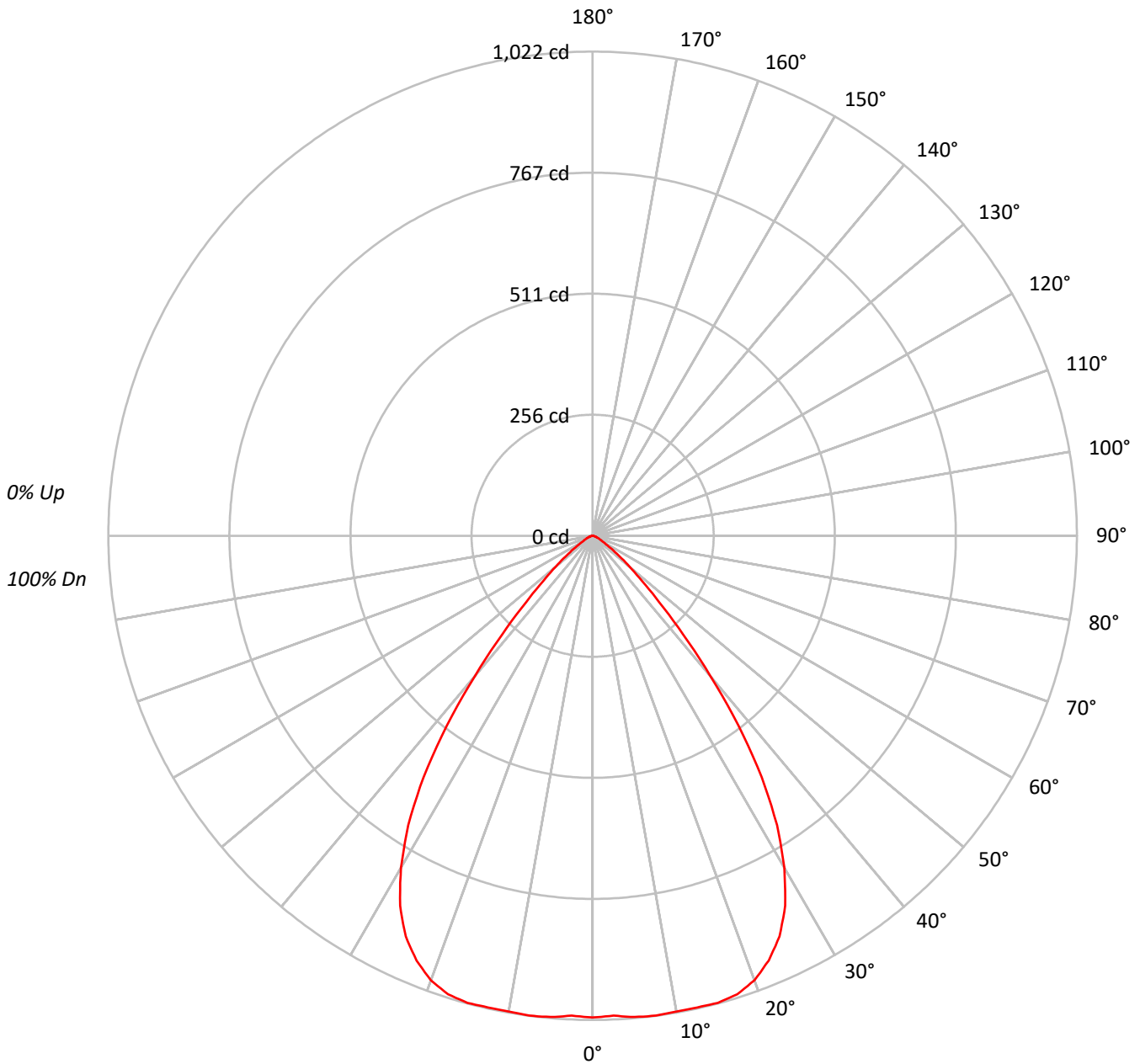
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																	
RC	80									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	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	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92																											
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84																											
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77																											
4	94	86	79	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																											
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																											
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59																											
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54																											
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50																											
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46																											
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43																											

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

	0°
0°	55736
5°	56114
10°	56762
15°	57923
20°	58251
25°	56435
30°	51198
35°	41626
40°	27630
45°	15381
50°	8622
55°	4788
60°	2642
65°	1998
70°	1378
75°	1017
80°	600
85°	566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.3	6.8
10°-20°	287.8	20.2
20°-30°	424.2	29.8
30°-40°	379.4	26.7
40°-50°	164.6	11.6
50°-60°	48.4	3.4
60°-70°	15.4	1.1
70°-80°	5.4	0.4
80°-90°	0.7	0.1
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°	809.3	56.9
0°-40°	1188.6	83.5
0°-60°	1401.6	98.5
0°-90°	1423.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1423.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1017	
5°	1020	97
15°	1021	288
25°	933	424
35°	622	379
45°	198	165
55°	50	48
65°	15	15
75°	5	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1016.7
2.5°	1013.9
5°	1019.7
7.5°	1021.6
10°	1019.7
12.5°	1019.7
15°	1020.6
17.5°	1014.8
20°	998.5
22.5°	970.5
25°	933.0
27.5°	880.1
30°	808.8
32.5°	724.0
35°	622.0
37.5°	505.5
40°	386.1
42.5°	282.2
45°	198.4
47.5°	141.5
50°	101.1
52.5°	72.2
55°	50.1
57.5°	33.7
60°	24.1
62.5°	19.3
65°	15.4
67.5°	11.6
70°	8.6
72.5°	6.7
75°	4.8
77.5°	3.9
80°	1.9
82.5°	0.9
85°	0.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)