

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: P581762

Luminaire Tested: **HC615D010-HM60525840-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581762  
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: HC615D010-HM60525840-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1759.1 lumens  
Efficiency: N/A  
Efficacy: 125.7 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

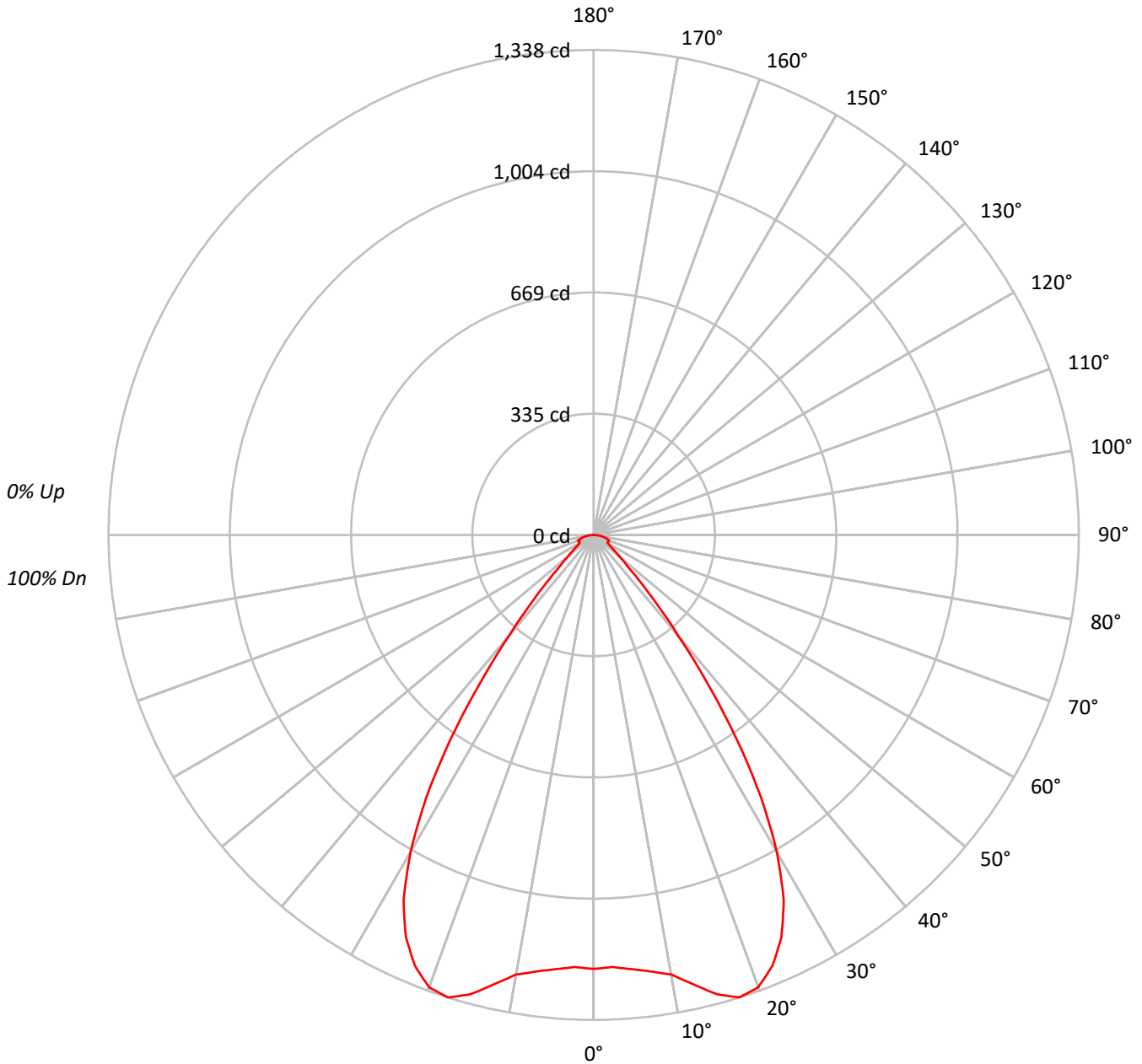
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	65614
5°	66168
10°	68553
15°	74467
20°	77456
25°	74085
30°	63934
35°	46036
40°	25934
45°	13443
50°	8017
55°	5773
60°	4901
65°	5656
70°	7165
75°	7583
80°	7419
85°	7045



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.7	6.6
10°-20°	370.1	21.0
20°-30°	553.1	31.4
30°-40°	422.8	24.0
40°-50°	147.7	8.4
50°-60°	56.3	3.2
60°-70°	44.1	2.5
70°-80°	37.3	2.1
80°-90°	12.0	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°	1038.9	59.1
0°-40°	1461.7	83.1
0°-60°	1665.6	94.7
0°-90°	1759.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1759.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1197	
5°	1202	116
15°	1312	370
25°	1225	553
35°	688	423
45°	173	148
55°	60	56
65°	44	44
75°	36	37
85°	11	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1196.9
2.5°	1193.5
5°	1202.4
7.5°	1214.7
10°	1231.5
12.5°	1269.5
15°	1312.1
17.5°	1337.7
20°	1327.7
22.5°	1287.4
25°	1224.8
27.5°	1135.3
30°	1010.0
32.5°	860.1
35°	687.9
37.5°	510.1
40°	362.4
42.5°	253.9
45°	173.4
47.5°	121.9
50°	94.0
52.5°	73.8
55°	60.4
57.5°	49.3
60°	44.7
62.5°	43.6
65°	43.6
67.5°	45.9
70°	44.7
72.5°	41.4
75°	35.8
77.5°	30.2
80°	23.5
82.5°	16.8
85°	11.2
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)