

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: P583076

Luminaire Tested: **HC655D010-HM64560927-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583076  
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: HC655D010-HM64560927-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4423.7 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

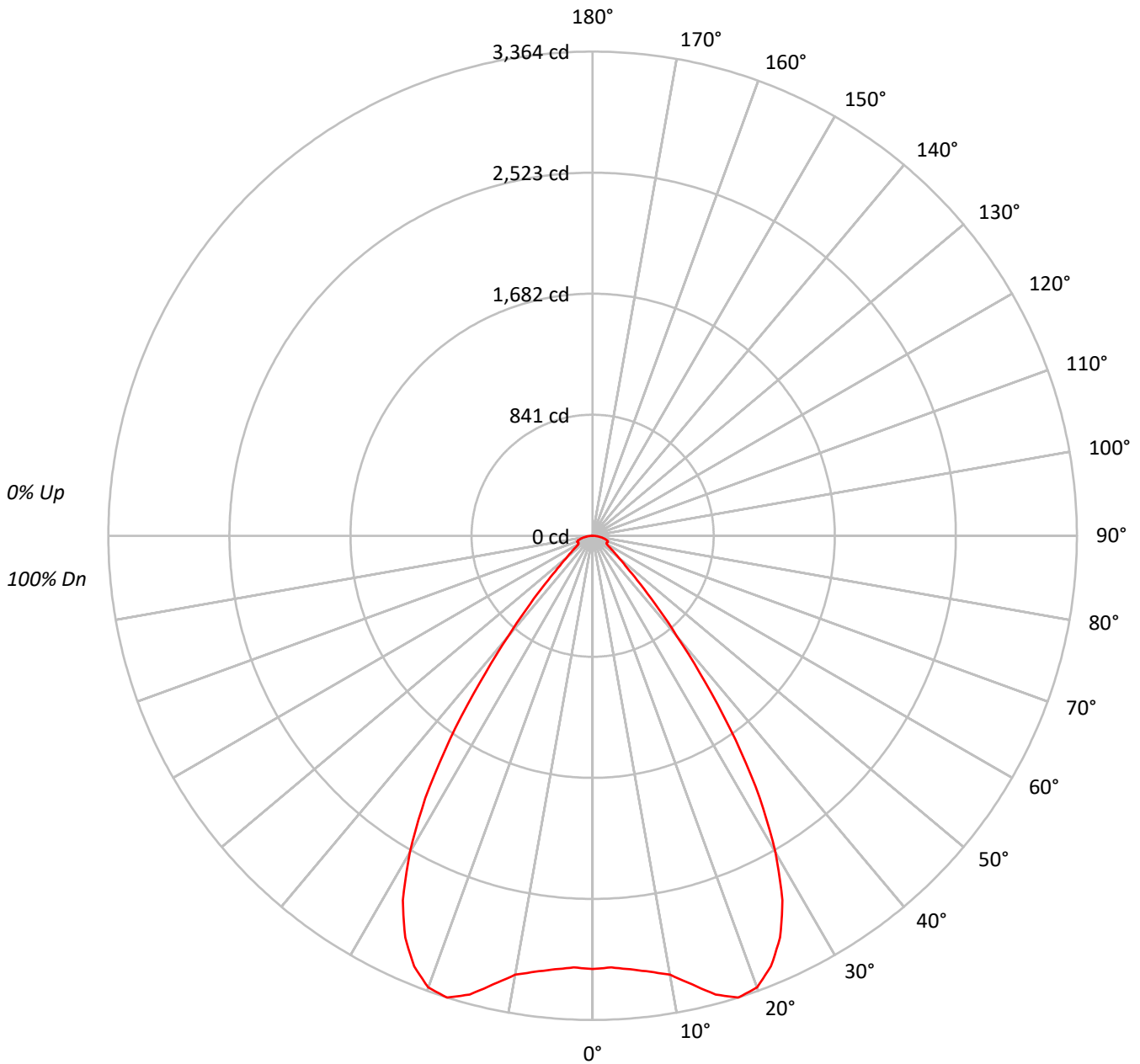
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583076

CATALOG NUMBER: HC655D010-HM64560927-61WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P583076

CATALOG NUMBER: HC655D010-HM64560927-61WDWB

**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°	164992
5°	166393
10°	172392
15°	187254
20°	194780
25°	186307
30°	160784
35°	115770
40°	65222
45°	33794
50°	20144
55°	14518
60°	12335
65°	14230
70°	18032
75°	19063
80°	18626
85°	17738



TEST NUMBER: P583076

CATALOG NUMBER: HC655D010-HM64560927-61WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.0	6.6
10°-20°	930.6	21.0
20°-30°	1390.9	31.4
30°-40°	1063.3	24.0
40°-50°	371.4	8.4
50°-60°	141.5	3.2
60°-70°	111.0	2.5
70°-80°	93.9	2.1
80°-90°	30.2	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°	2612.5	59.1
0°-40°	3675.7	83.1
0°-60°	4188.6	94.7
0°-90°	4423.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4423.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3010	
5°	3024	291
15°	3299	931
25°	3080	1391
35°	1730	1063
45°	436	371
55°	152	141
65°	110	111
75°	90	94
85°	28	30
90°	0	



TEST NUMBER: P583076

CATALOG NUMBER: HC655D010-HM64560927-61WDWB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3009.7
2.5°	3001.3
5°	3023.7
7.5°	3054.7
10°	3096.9
12.5°	3192.6
15°	3299.4
17.5°	3364.1
20°	3338.8
22.5°	3237.5
25°	3080.1
27.5°	2855.1
30°	2540.0
32.5°	2163.0
35°	1729.9
37.5°	1282.6
40°	911.4
42.5°	638.5
45°	435.9
47.5°	306.6
50°	236.2
52.5°	185.6
55°	151.9
57.5°	123.7
60°	112.5
62.5°	109.7
65°	109.7
67.5°	115.3
70°	112.5
72.5°	104.1
75°	90.0
77.5°	75.9
80°	59.0
82.5°	42.2
85°	28.2
87.5°	11.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)