

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: P583018

Luminaire Tested: **HC655D010-HM64560830-61WDBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560830-61WDBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4821.3 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

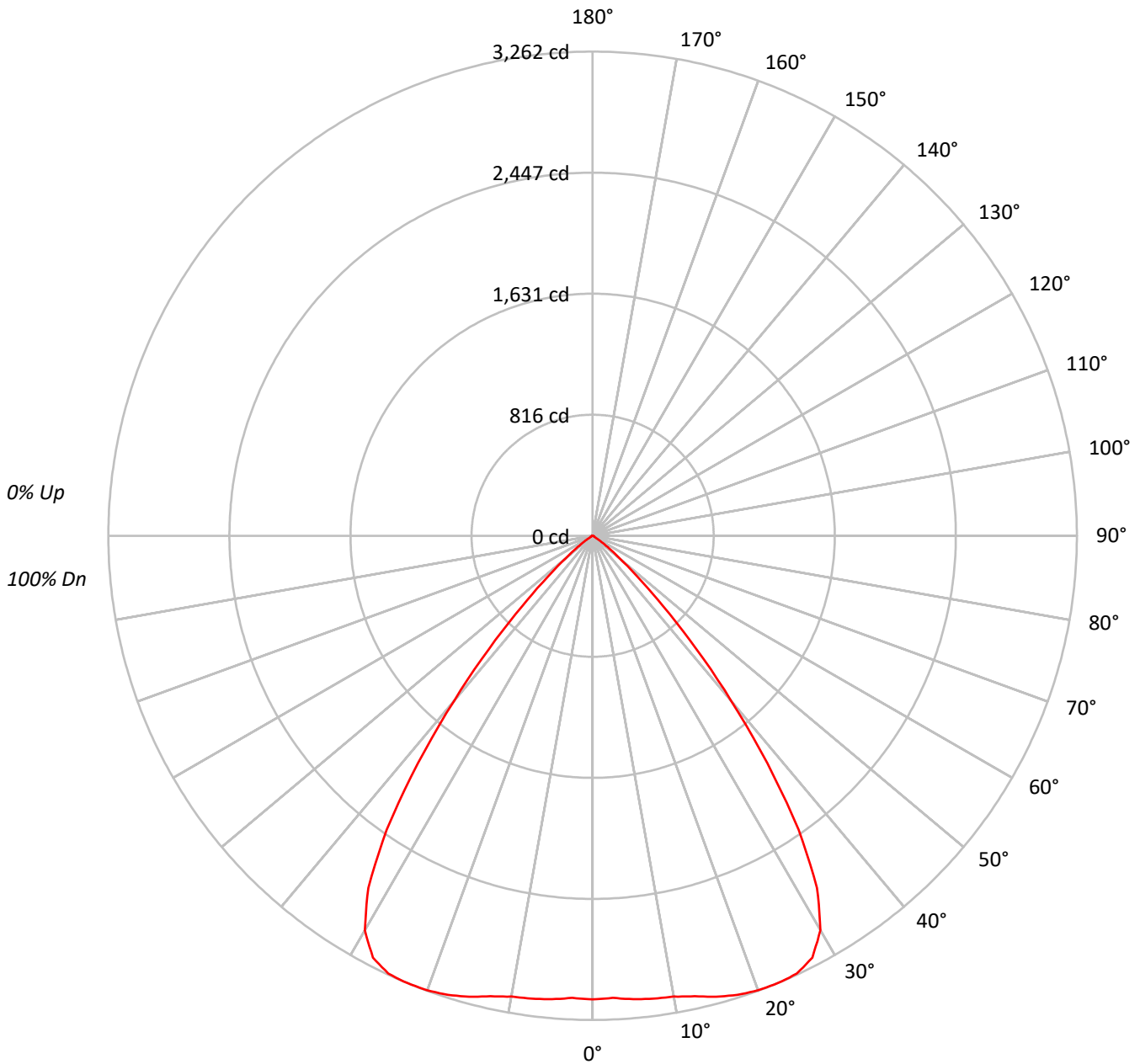
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583018

CATALOG NUMBER: HC655D010-HM64560830-61WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P583018

CATALOG NUMBER: HC655D010-HM64560830-61WDBB

**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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85	85	85	85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65	65	65	65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59	59	59	59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43	43	43	43

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

	0°
0°	171225
5°	172485
10°	175492
15°	182447
20°	190102
25°	196880
30°	194245
35°	161847
40°	103780
45°	51827
50°	20562
55°	6987
60°	1995
65°	1427
70°	1170
75°	1546
80°	1168
85°	0



TEST NUMBER: P583018

CATALOG NUMBER: HC655D010-HM64560830-61WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.7	6.2
10°-20°	911.8	18.9
20°-30°	1488.8	30.9
30°-40°	1459.4	30.3
40°-50°	559.6	11.6
50°-60°	82.1	1.7
60°-70°	12.2	0.3
70°-80°	6.3	0.1
80°-90°	1.5	0.0
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°	2700.3	56.0
0°-40°	4159.7	86.3
0°-60°	4801.3	99.6
0°-90°	4821.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3123	
5°	3134	300
15°	3215	912
25°	3255	1489
35°	2418	1459
45°	668	560
55°	73	82
65°	11	12
75°	7	6
85°	0	2
90°	0	



TEST NUMBER: P583018

CATALOG NUMBER: HC655D010-HM64560830-61WDBB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3123.4
2.5°	3116.1
5°	3134.4
7.5°	3145.4
10°	3152.6
12.5°	3178.2
15°	3214.7
17.5°	3243.9
20°	3258.6
22.5°	3262.2
25°	3254.9
27.5°	3203.8
30°	3068.6
32.5°	2812.9
35°	2418.4
37.5°	1932.4
40°	1450.2
42.5°	1033.8
45°	668.5
47.5°	409.2
50°	241.1
52.5°	138.8
55°	73.1
57.5°	32.9
60°	18.2
62.5°	14.7
65°	11.0
67.5°	11.0
70°	7.3
72.5°	7.3
75°	7.3
77.5°	3.7
80°	3.7
82.5°	3.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)