

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: P583020

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583020  
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: HC655D010-HM64560830-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5402.0 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

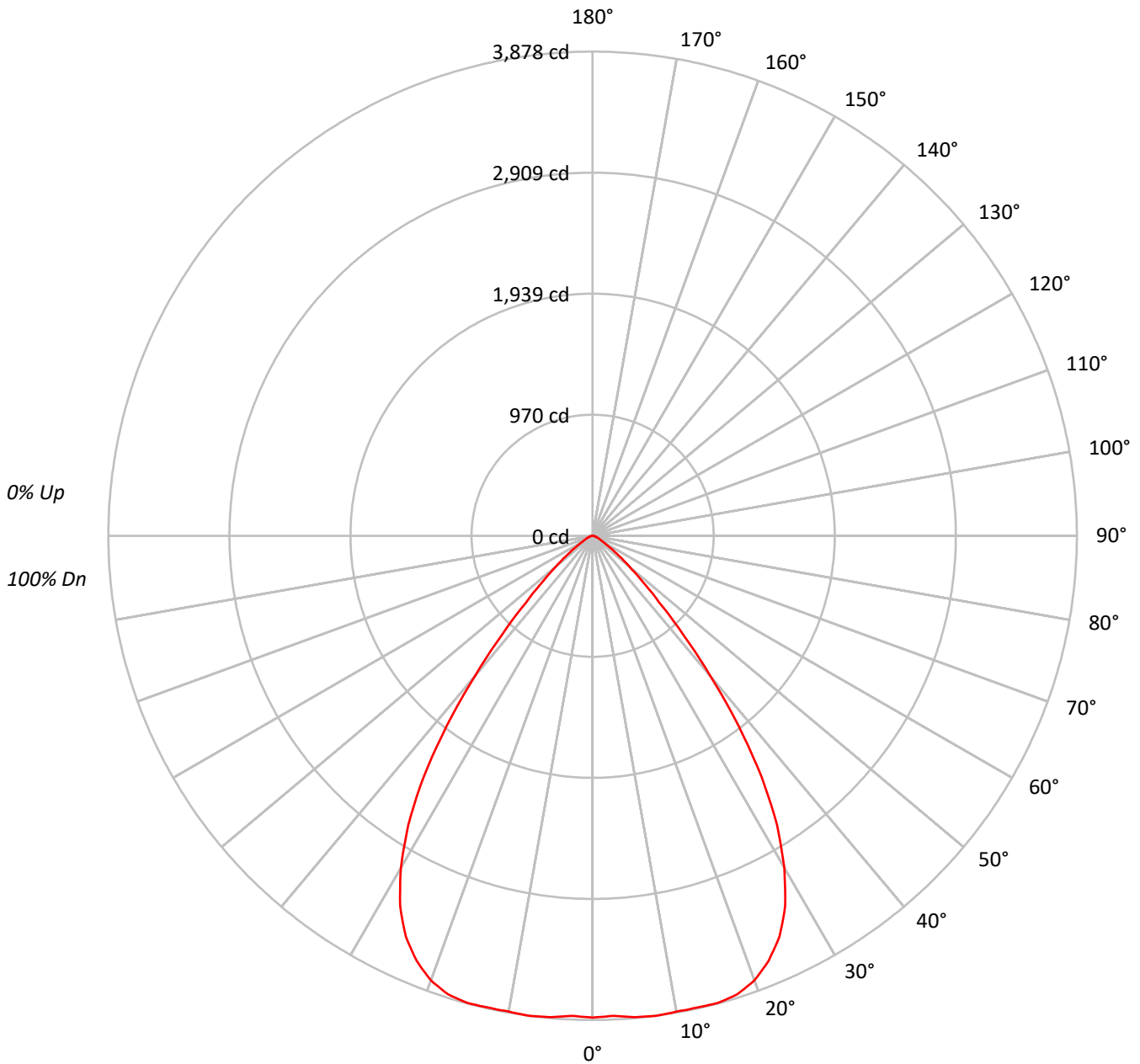
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583020

CATALOG NUMBER: HC655D010-HM64560830-61WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P583020

CATALOG NUMBER: HC655D010-HM64560830-61WDH

**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	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	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	51	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	49	45	53	48	45	53	48	44	43	43	43	43

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

	0°
0°	211562
5°	212975
10°	215438
15°	219859
20°	221085
25°	214204
30°	194327
35°	157992
40°	104875
45°	58370
50°	32732
55°	18159
60°	10010
65°	7575
70°	5273
75°	3855
80°	2305
85°	2327



TEST NUMBER: P583020

CATALOG NUMBER: HC655D010-HM64560830-61WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.4	6.8
10°-20°	1092.3	20.2
20°-30°	1609.9	29.8
30°-40°	1439.9	26.7
40°-50°	624.7	11.6
50°-60°	183.5	3.4
60°-70°	58.6	1.1
70°-80°	20.7	0.4
80°-90°	3.0	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°	3071.6	56.9
0°-40°	4511.5	83.5
0°-60°	5319.8	98.5
0°-90°	5402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3859	
5°	3870	369
15°	3874	1092
25°	3541	1610
35°	2361	1440
45°	753	625
55°	190	184
65°	58	59
75°	18	21
85°	4	3
90°	0	



TEST NUMBER: P583020

CATALOG NUMBER: HC655D010-HM64560830-61WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3859.2
2.5°	3848.3
5°	3870.2
7.5°	3877.5
10°	3870.2
12.5°	3870.2
15°	3873.9
17.5°	3852.0
20°	3789.7
22.5°	3683.7
25°	3541.3
27.5°	3340.3
30°	3069.9
32.5°	2748.2
35°	2360.8
37.5°	1918.6
40°	1465.5
42.5°	1070.7
45°	752.9
47.5°	537.2
50°	383.8
52.5°	274.1
55°	190.0
57.5°	127.9
60°	91.3
62.5°	73.1
65°	58.4
67.5°	43.9
70°	32.9
72.5°	25.6
75°	18.2
77.5°	14.7
80°	7.3
82.5°	3.7
85°	3.7
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)