

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: P583021

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560830-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5332.6 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

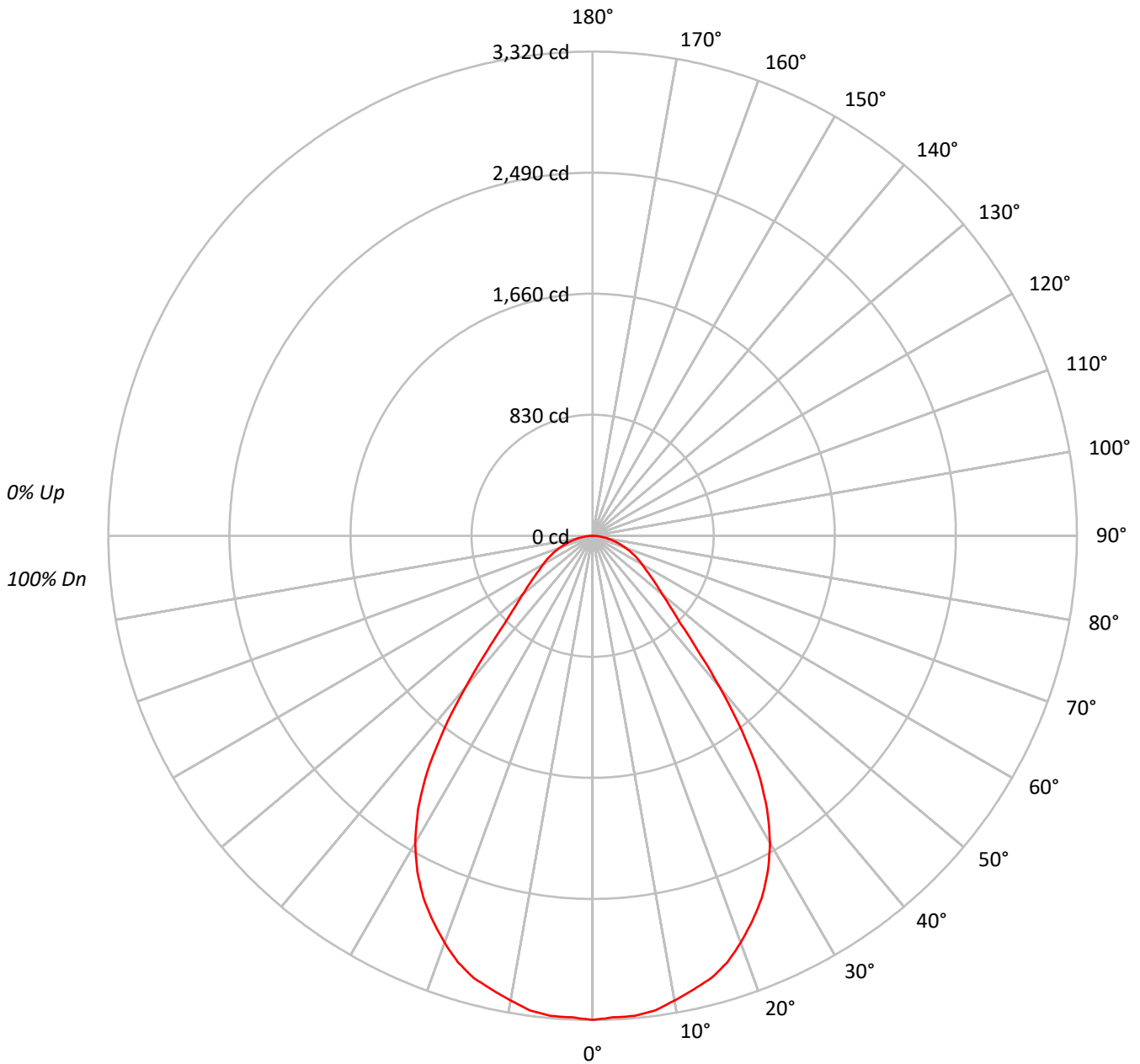
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

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

	0°
0°	181976
5°	181867
10°	180107
15°	178242
20°	173207
25°	165887
30°	153954
35°	132461
40°	96695
45°	66247
50°	53261
55°	46421
60°	42836
65°	40744
70°	38051
75°	35584
80°	32264
85°	27550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.3	5.9
10°-20°	882.0	16.5
20°-30°	1254.4	23.5
30°-40°	1207.7	22.6
40°-50°	694.9	13.0
50°-60°	440.3	8.3
60°-70°	311.7	5.8
70°-80°	177.7	3.3
80°-90°	50.6	0.9
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°	2449.7	45.9
0°-40°	3657.4	68.6
0°-60°	4792.6	89.9
0°-90°	5332.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5332.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3320	
5°	3305	313
15°	3141	882
25°	2742	1254
35°	1979	1208
45°	854	695
55°	486	440
65°	314	312
75°	168	178
85°	44	51
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3319.5
2.5°	3304.9
5°	3304.9
7.5°	3283.1
10°	3235.5
12.5°	3188.1
15°	3140.6
17.5°	3067.5
20°	2969.0
22.5°	2859.4
25°	2742.5
27.5°	2600.1
30°	2432.1
32.5°	2227.6
35°	1979.3
37.5°	1676.2
40°	1351.2
42.5°	1066.4
45°	854.5
47.5°	719.4
50°	624.5
52.5°	547.7
55°	485.7
57.5°	431.0
60°	390.7
62.5°	354.2
65°	314.1
67.5°	277.5
70°	237.4
72.5°	200.9
75°	168.0
77.5°	135.1
80°	102.2
82.5°	73.0
85°	43.8
87.5°	18.2
90°	0.0



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— 0°-180°







(END OF REPORT)