

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: P583065

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560927-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3883.8 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

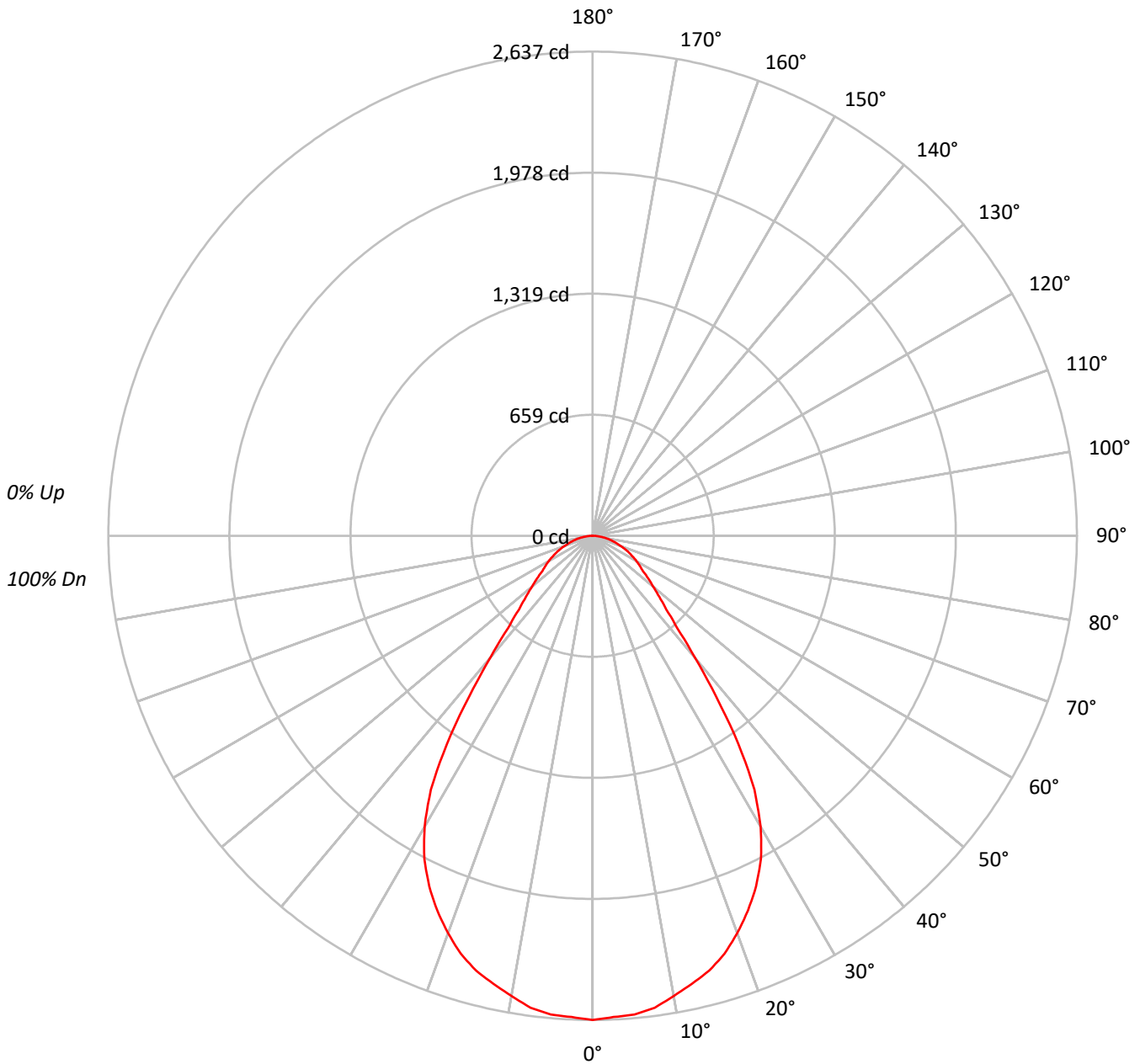
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	144583
5°	144045
10°	141642
15°	139149
20°	134336
25°	127386
30°	115860
35°	92575
40°	61766
45°	44036
50°	36681
55°	31980
60°	30206
65°	28447
70°	26126
75°	24400
80°	22193
85°	19436



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.6	6.4
10°-20°	688.4	17.7
20°-30°	962.0	24.8
30°-40°	847.4	21.8
40°-50°	457.8	11.8
50°-60°	306.1	7.9
60°-70°	217.0	5.6
70°-80°	121.9	3.1
80°-90°	35.6	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°	1898.0	48.9
0°-40°	2745.4	70.7
0°-60°	3509.3	90.4
0°-90°	3883.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2637	
5°	2618	248
15°	2452	688
25°	2106	962
35°	1383	847
45°	568	458
55°	335	306
65°	219	217
75°	115	122
85°	31	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2637.4
2.5°	2623.3
5°	2617.6
7.5°	2592.3
10°	2544.5
12.5°	2499.6
15°	2451.8
17.5°	2387.1
20°	2302.7
22.5°	2210.0
25°	2106.0
27.5°	1985.1
30°	1830.3
32.5°	1639.2
35°	1383.3
37.5°	1104.9
40°	863.1
42.5°	680.5
45°	568.0
47.5°	492.0
50°	430.1
52.5°	379.6
55°	334.6
57.5°	303.7
60°	275.5
62.5°	247.5
65°	219.3
67.5°	191.2
70°	163.0
72.5°	137.8
75°	115.2
77.5°	92.7
80°	70.3
82.5°	50.6
85°	30.9
87.5°	14.1
90°	0.0



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— 0°-180°







(END OF REPORT)