

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: P583101

Luminaire Tested: **HC655D010-HM64560935-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583101  
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-HM64560935-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4694.4 lumens  
Efficiency: N/A  
Efficacy: 90.3 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

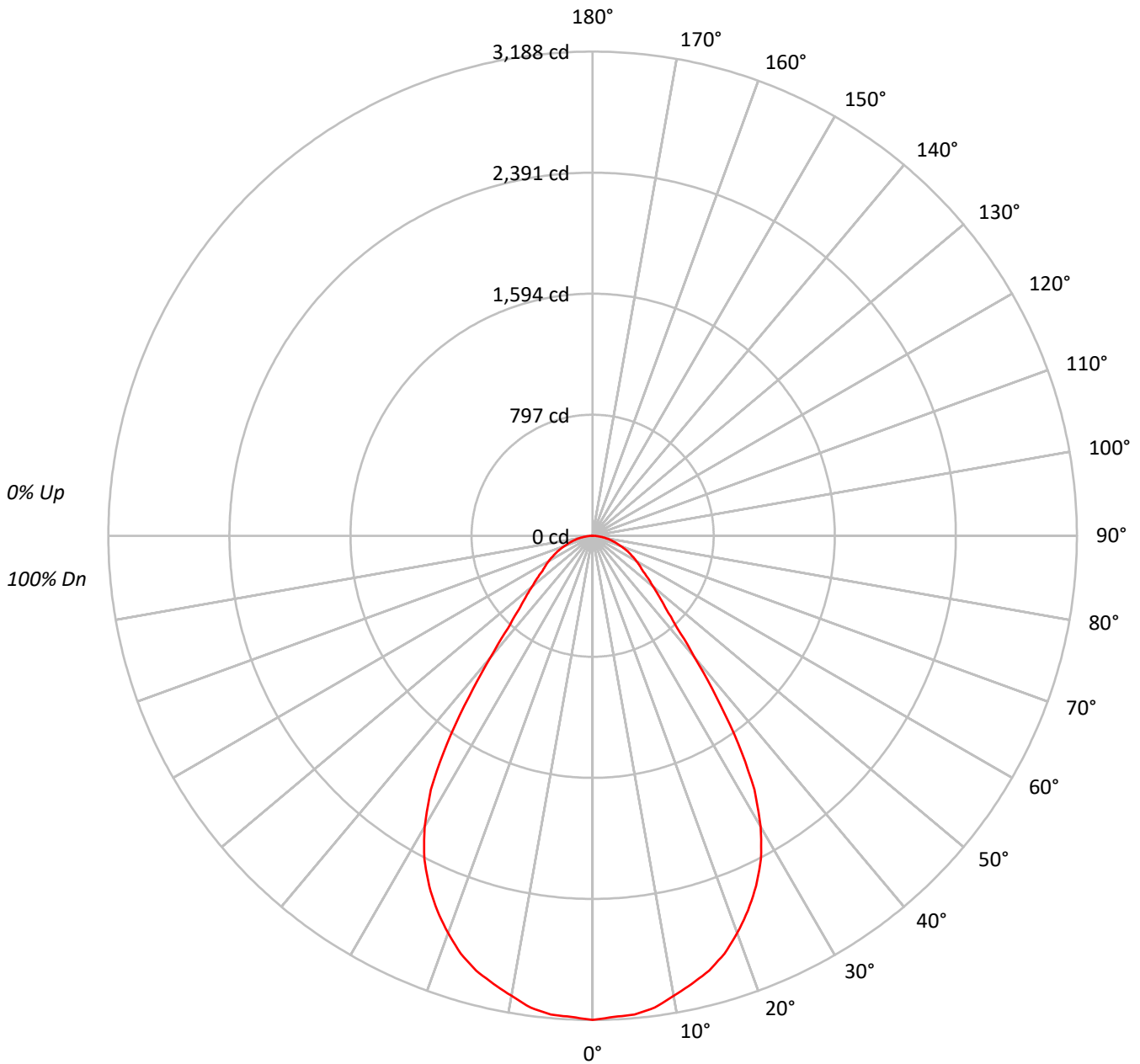
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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°	174756
5°	174119
10°	171211
15°	168191
20°	162379
25°	153971
30°	140047
35°	111902
40°	74661
45°	53223
50°	44340
55°	38661
60°	36510
65°	34388
70°	31592
75°	29526
80°	26803
85°	23524



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.2	6.4
10°-20°	832.1	17.7
20°-30°	1162.8	24.8
30°-40°	1024.3	21.8
40°-50°	553.3	11.8
50°-60°	370.0	7.9
60°-70°	262.2	5.6
70°-80°	147.4	3.1
80°-90°	43.0	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°	2294.1	48.9
0°-40°	3318.4	70.7
0°-60°	4241.8	90.4
0°-90°	4694.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4694.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3188	
5°	3164	299
15°	2964	832
25°	2546	1163
35°	1672	1024
45°	686	553
55°	404	370
65°	265	262
75°	139	147
85°	37	43
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3187.8
2.5°	3170.8
5°	3164.1
7.5°	3133.4
10°	3075.7
12.5°	3021.3
15°	2963.5
17.5°	2885.3
20°	2783.4
22.5°	2671.2
25°	2545.5
27.5°	2399.4
30°	2212.4
32.5°	1981.3
35°	1672.1
37.5°	1335.6
40°	1043.3
42.5°	822.4
45°	686.5
47.5°	594.7
50°	519.9
52.5°	458.8
55°	404.5
57.5°	367.1
60°	333.0
62.5°	299.1
65°	265.1
67.5°	231.0
70°	197.1
72.5°	166.6
75°	139.4
77.5°	112.1
80°	84.9
82.5°	61.2
85°	37.4
87.5°	17.0
90°	0.0



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— 0°-180°







(END OF REPORT)