

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: P581200

Luminaire Tested: **HC455D010-HM44560927-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC455D010-HM44560927-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" 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: 3694.9 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

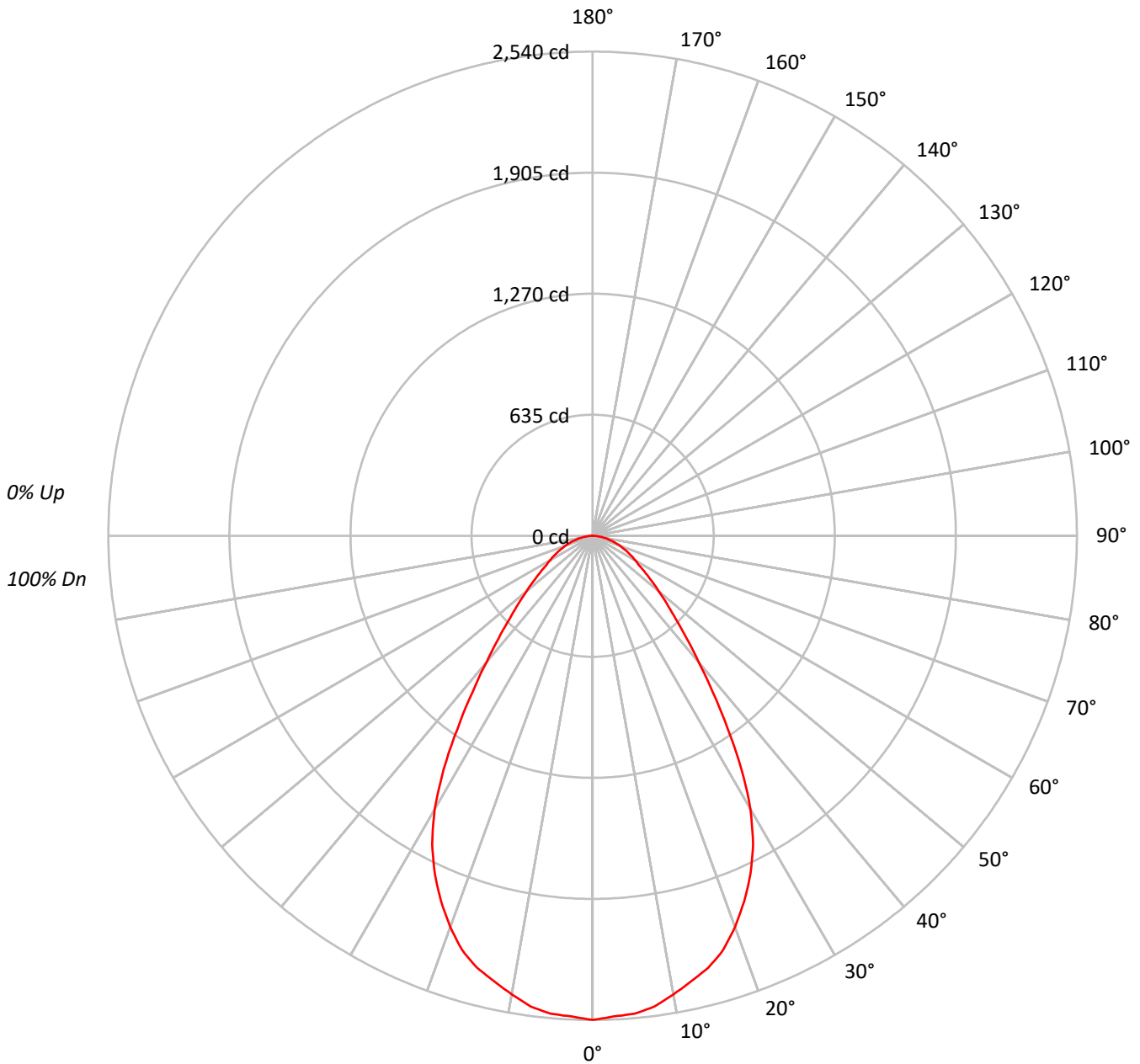
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

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

	0°
0°	313249
5°	311597
10°	305907
15°	299462
20°	286636
25°	266546
30°	235902
35°	186189
40°	139343
45°	107192
50°	86965
55°	72127
60°	63770
65°	59043
70°	54492
75°	50040
80°	45460
85°	36230



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.9	6.4
10°-20°	657.6	17.8
20°-30°	893.0	24.2
30°-40°	773.5	20.9
40°-50°	485.7	13.1
50°-60°	305.5	8.3
60°-70°	200.7	5.4
70°-80°	110.7	3.0
80°-90°	30.3	0.8
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°	1788.5	48.4
0°-40°	2562.1	69.3
0°-60°	3353.2	90.8
0°-90°	3694.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3694.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2540	
5°	2517	238
15°	2345	658
25°	1958	893
35°	1236	774
45°	614	486
55°	335	305
65°	202	201
75°	105	111
85°	26	30
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2539.6
2.5°	2524.3
5°	2516.6
7.5°	2491.0
10°	2442.4
12.5°	2393.7
15°	2345.1
17.5°	2278.5
20°	2183.7
22.5°	2076.3
25°	1958.5
27.5°	1822.8
30°	1656.3
32.5°	1454.2
35°	1236.5
37.5°	1036.8
40°	865.4
42.5°	729.7
45°	614.5
47.5°	527.4
50°	453.2
52.5°	389.1
55°	335.4
57.5°	289.2
60°	258.5
62.5°	230.4
65°	202.3
67.5°	174.0
70°	151.1
72.5°	125.4
75°	105.0
77.5°	81.9
80°	64.0
82.5°	43.5
85°	25.6
87.5°	10.2
90°	0.0



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— 0°-180°







(END OF REPORT)