

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: P592935

Luminaire Tested: **HC455D010-HM44560950-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592935  
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-HM44560950-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4145.1 lumens  
Efficiency: N/A  
Efficacy: 79.7 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

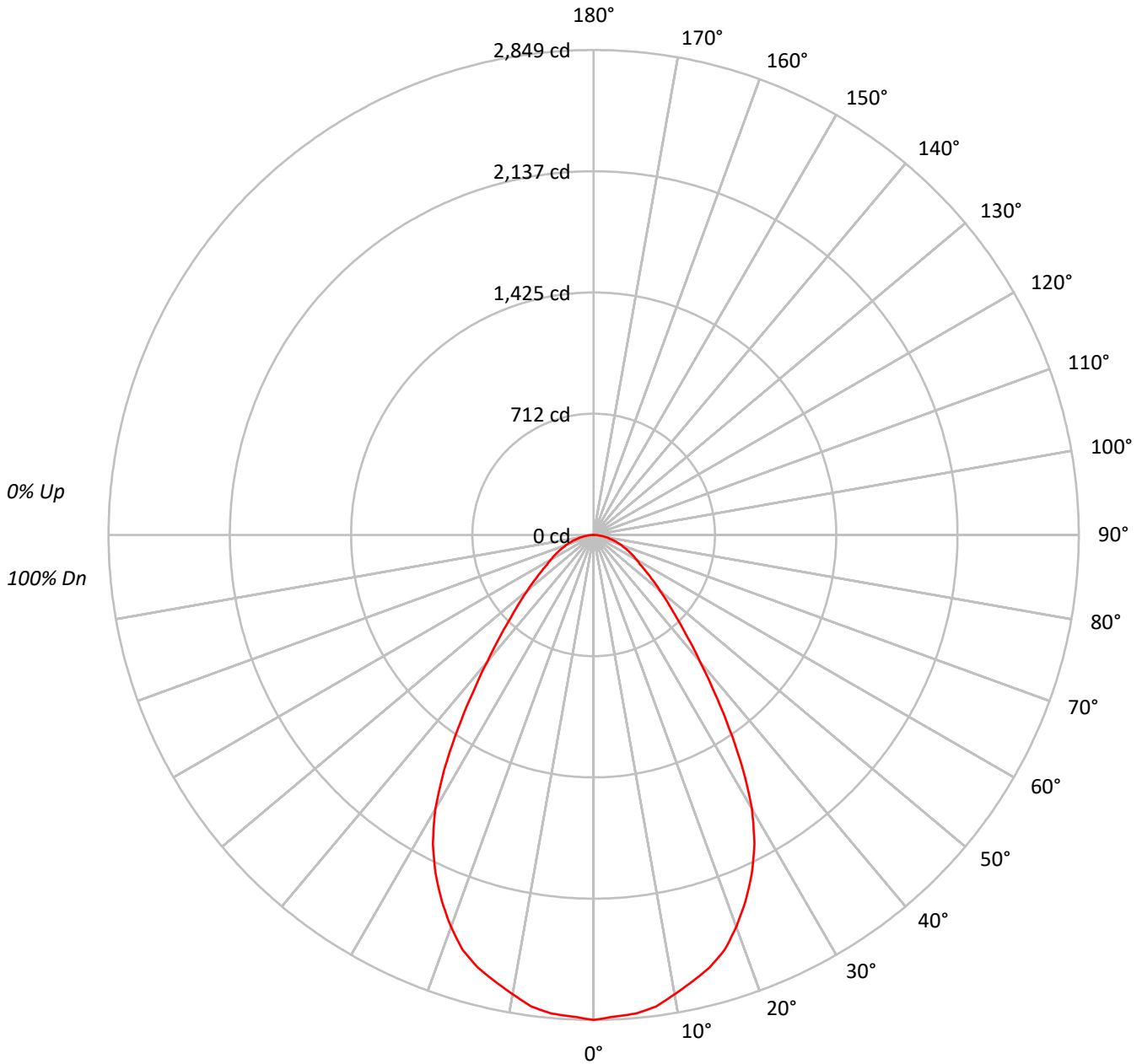
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	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	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	351424
5°	349572
10°	343168
15°	335945
20°	321578
25°	299018
30°	264673
35°	208881
40°	156315
45°	120239
50°	97558
55°	80901
60°	71540
65°	66223
70°	61092
75°	56140
80°	51001
85°	40617



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.9	6.4
10°-20°	737.8	17.8
20°-30°	1001.8	24.2
30°-40°	867.8	20.9
40°-50°	544.8	13.1
50°-60°	342.7	8.3
60°-70°	225.1	5.4
70°-80°	124.2	3.0
80°-90°	34.0	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°	2006.5	48.4
0°-40°	2874.2	69.3
0°-60°	3761.8	90.8
0°-90°	4145.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4145.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2849	
5°	2823	267
15°	2631	738
25°	2197	1002
35°	1387	868
45°	689	545
55°	376	343
65°	227	225
75°	118	124
85°	29	34
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2849.1
2.5°	2831.8
5°	2823.3
7.5°	2794.5
10°	2739.9
12.5°	2685.4
15°	2630.8
17.5°	2556.1
20°	2449.9
22.5°	2329.2
25°	2197.1
27.5°	2044.9
30°	1858.3
32.5°	1631.4
35°	1387.2
37.5°	1163.1
40°	970.8
42.5°	818.6
45°	689.3
47.5°	591.6
50°	508.4
52.5°	436.5
55°	376.2
57.5°	324.6
60°	290.0
62.5°	258.5
65°	226.9
67.5°	195.3
70°	169.4
72.5°	140.7
75°	117.8
77.5°	91.9
80°	71.8
82.5°	48.8
85°	28.7
87.5°	11.5
90°	0.0



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— 0°-180°







(END OF REPORT)