

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: P581164

Luminaire Tested: **HC455D010-HM44560835-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581164  
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-HM44560835-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4759.5 lumens  
Efficiency: N/A  
Efficacy: 91.5 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

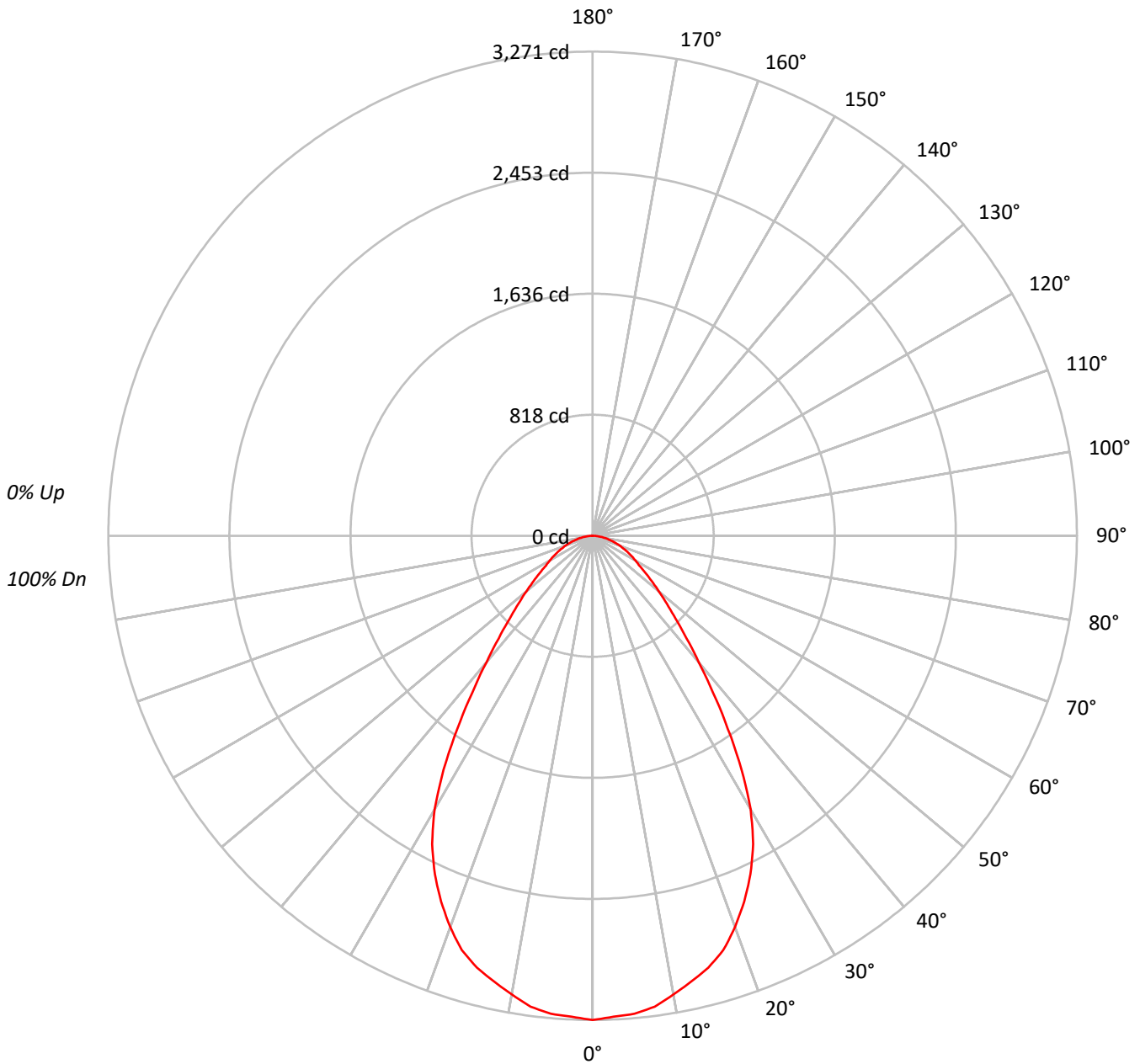
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	403513
5°	401377
10°	394044
15°	385734
20°	369239
25°	343345
30°	303897
35°	239839
40°	179469
45°	138049
50°	112026
55°	92900
60°	82173
65°	76059
70°	70180
75°	64432
80°	58601
85°	46703



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.5	6.4
10°-20°	847.1	17.8
20°-30°	1150.3	24.2
30°-40°	996.4	20.9
40°-50°	625.6	13.1
50°-60°	393.5	8.3
60°-70°	258.5	5.4
70°-80°	142.6	3.0
80°-90°	39.0	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°	2303.9	48.4
0°-40°	3300.3	69.3
0°-60°	4319.4	90.8
0°-90°	4759.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4759.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3271	
5°	3242	306
15°	3021	847
25°	2523	1150
35°	1593	996
45°	791	626
55°	432	394
65°	261	259
75°	135	143
85°	33	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3271.4
2.5°	3251.6
5°	3241.7
7.5°	3208.7
10°	3146.1
12.5°	3083.4
15°	3020.7
17.5°	2935.0
20°	2813.0
22.5°	2674.5
25°	2522.8
27.5°	2348.0
30°	2133.7
32.5°	1873.1
35°	1592.8
37.5°	1335.6
40°	1114.6
42.5°	939.8
45°	791.4
47.5°	679.4
50°	583.8
52.5°	501.3
55°	432.0
57.5°	372.6
60°	333.1
62.5°	296.8
65°	260.6
67.5°	224.2
70°	194.6
72.5°	161.5
75°	135.2
77.5°	105.5
80°	82.5
82.5°	56.0
85°	33.0
87.5°	13.2
90°	0.0



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— 0°-180°







(END OF REPORT)