

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: P581219

Luminaire Tested: **HC455D010-HM44560930-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC455D010-HM44560930-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3824.6 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

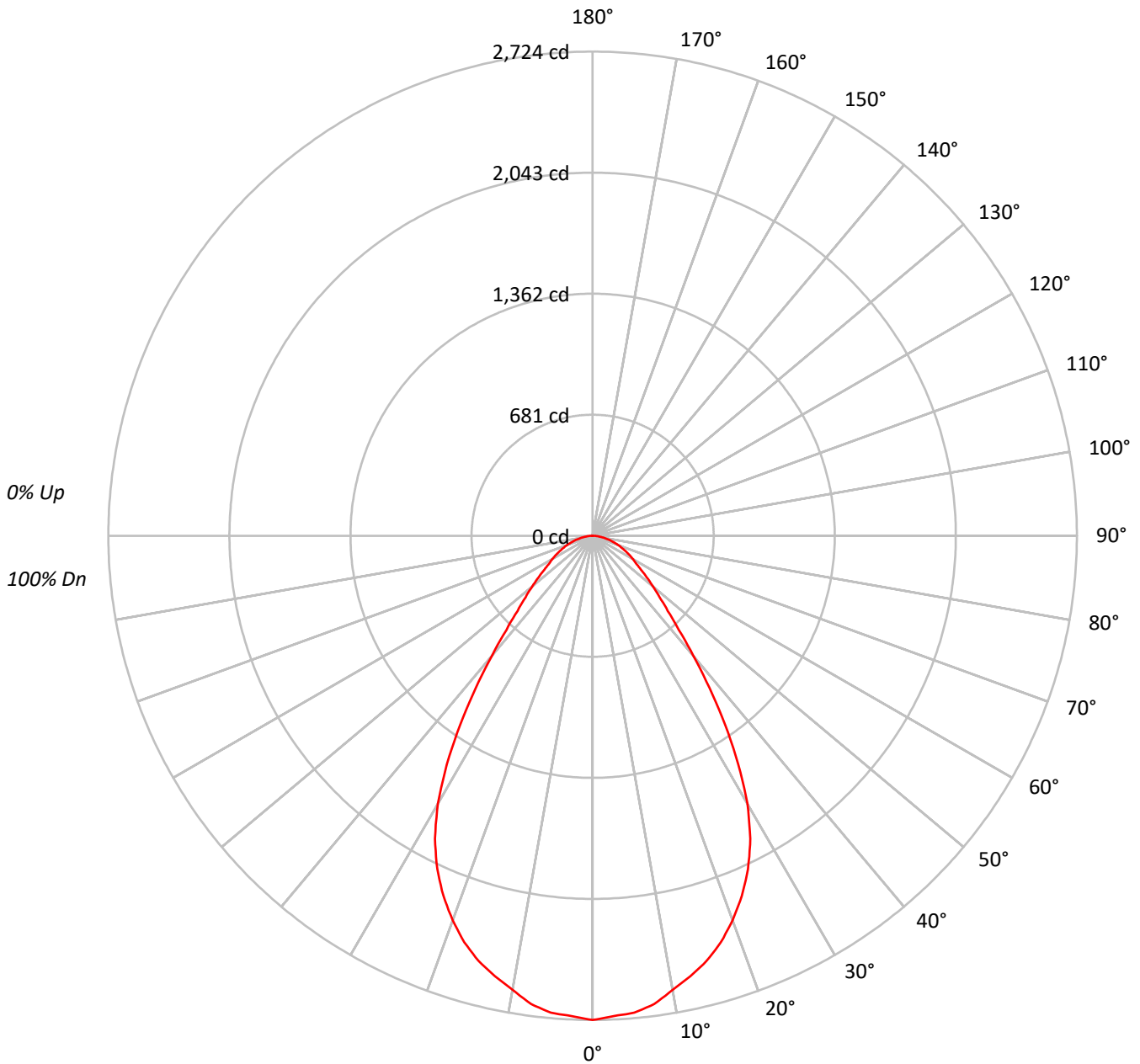
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

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

	0°
0°	336006
5°	333513
10°	324832
15°	316267
20°	302112
25°	281462
30°	247852
35°	195464
40°	141888
45°	104244
50°	84816
55°	71137
60°	64460
65°	59248
70°	55142
75°	50326
80°	45389
85°	39343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.0	6.6
10°-20°	694.7	18.2
20°-30°	941.7	24.6
30°-40°	808.1	21.1
40°-50°	477.1	12.5
50°-60°	302.4	7.9
60°-70°	203.2	5.3
70°-80°	112.1	2.9
80°-90°	31.4	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°	1890.4	49.4
0°-40°	2698.4	70.6
0°-60°	3477.9	90.9
0°-90°	3824.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3824.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2724	
5°	2694	254
15°	2477	695
25°	2068	942
35°	1298	808
45°	598	477
55°	331	302
65°	203	203
75°	106	112
85°	28	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2724.1
2.5°	2704.6
5°	2693.6
7.5°	2657.4
10°	2593.5
12.5°	2537.9
15°	2476.7
17.5°	2398.8
20°	2301.6
22.5°	2193.2
25°	2068.1
27.5°	1920.8
30°	1740.2
32.5°	1526.1
35°	1298.1
37.5°	1078.5
40°	881.2
42.5°	717.2
45°	597.6
47.5°	511.4
50°	442.0
52.5°	383.6
55°	330.8
57.5°	289.1
60°	261.3
62.5°	233.6
65°	203.0
67.5°	177.9
70°	152.9
72.5°	127.9
75°	105.6
77.5°	83.4
80°	63.9
82.5°	44.4
85°	27.8
87.5°	11.1
90°	0.0



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— 0°-180°







(END OF REPORT)