

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: P581184

Luminaire Tested: **HC455D010-HM44560840-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC455D010-HM44560840-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5313.0 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

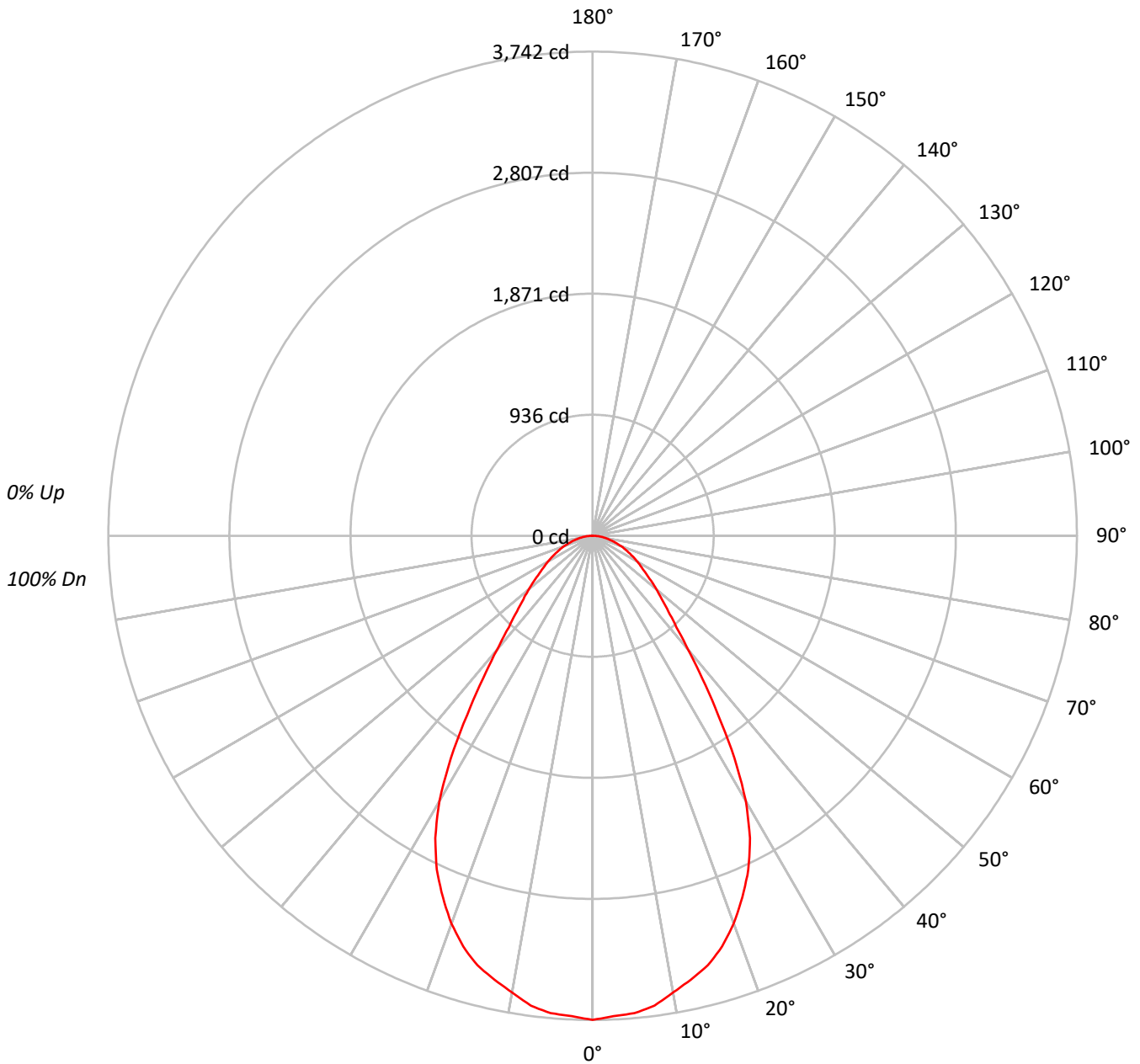
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

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

	0°
0°	461498
5°	458617
10°	448853
15°	438919
20°	418633
25°	387536
30°	337083
35°	254536
40°	184476
45°	144155
50°	123271
55°	106642
60°	98208
65°	89893
70°	83993
75°	76966
80°	72097
85°	69063



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.8	6.6
10°-20°	962.8	18.1
20°-30°	1294.7	24.4
30°-40°	1064.6	20.0
40°-50°	653.8	12.3
50°-60°	452.4	8.5
60°-70°	308.4	5.8
70°-80°	171.8	3.2
80°-90°	54.7	1.0
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°	2607.3	49.1
0°-40°	3671.9	69.1
0°-60°	4778.1	89.9
0°-90°	5313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5313.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3742	
5°	3704	350
15°	3437	963
25°	2848	1295
35°	1690	1065
45°	826	654
55°	496	452
65°	308	308
75°	162	172
85°	49	55
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3741.5
2.5°	3715.2
5°	3704.0
7.5°	3662.7
10°	3583.7
12.5°	3512.4
15°	3437.2
17.5°	3328.3
20°	3189.3
22.5°	3024.0
25°	2847.5
27.5°	2633.3
30°	2366.7
32.5°	2039.8
35°	1690.4
37.5°	1389.9
40°	1145.7
42.5°	957.9
45°	826.4
47.5°	725.1
50°	642.4
52.5°	567.2
55°	495.9
57.5°	443.2
60°	398.1
62.5°	353.1
65°	308.0
67.5°	270.4
70°	232.9
72.5°	195.3
75°	161.5
77.5°	127.7
80°	101.5
82.5°	75.1
85°	48.8
87.5°	26.3
90°	0.0



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— 0°-180°







(END OF REPORT)