

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: P592928

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC455D010-HM44560950-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4219.9 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

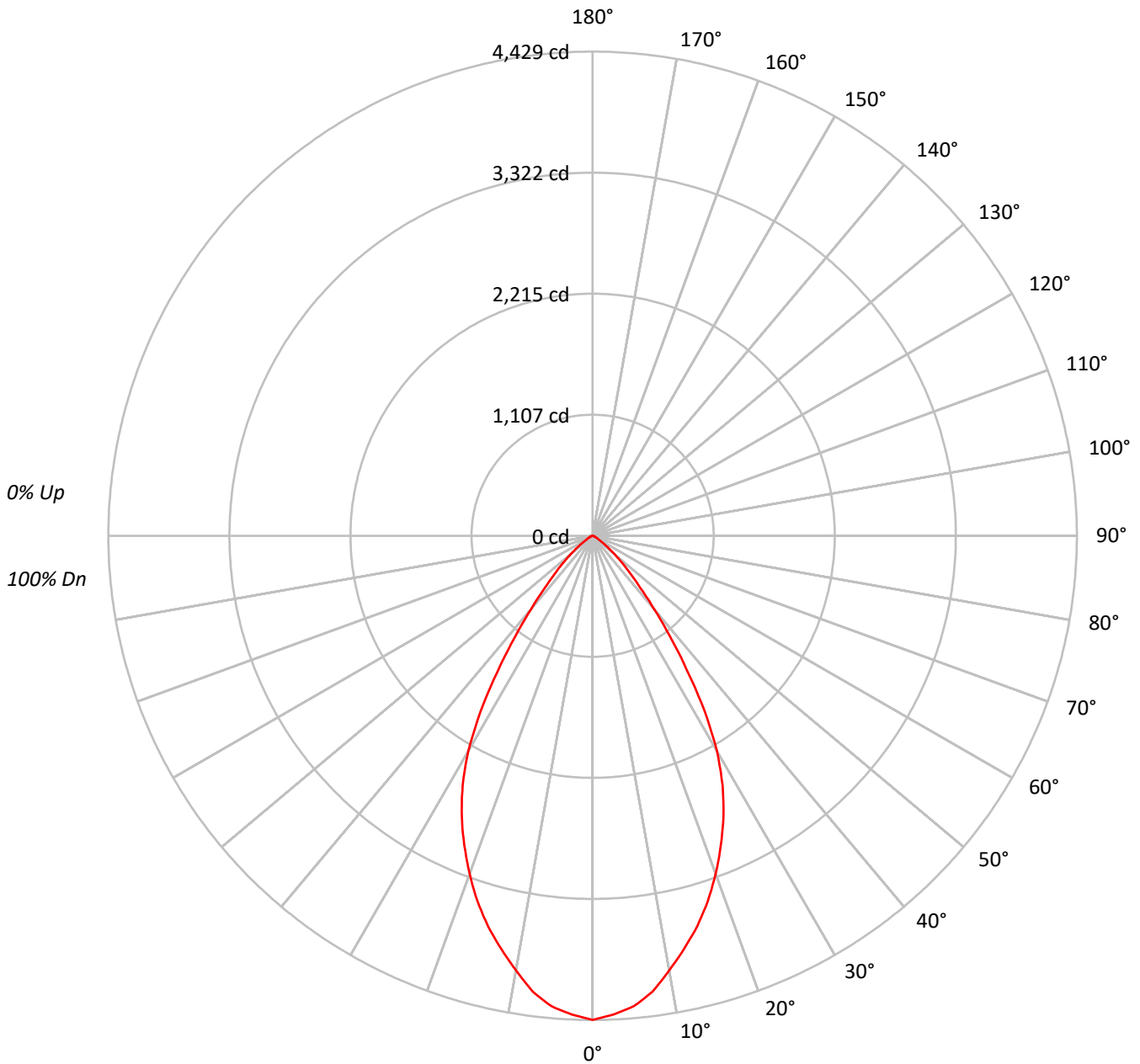
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

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

	0°
0°	546285
5°	534876
10°	505465
15°	472095
20°	431772
25°	385562
30°	323780
35°	227778
40°	140503
45°	84114
50°	49566
55°	24709
60°	12729
65°	8376
70°	5193
75°	4146
80°	2060
85°	4104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.4	9.6
10°-20°	1033.4	24.5
20°-30°	1288.8	30.5
30°-40°	949.3	22.5
40°-50°	390.5	9.3
50°-60°	114.1	2.7
60°-70°	29.4	0.7
70°-80°	9.1	0.2
80°-90°	2.0	0.0
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°	2725.6	64.6
0°-40°	3675.0	87.1
0°-60°	4179.5	99.0
0°-90°	4219.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4219.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4429	
5°	4320	403
15°	3697	1033
25°	2833	1289
35°	1513	949
45°	482	390
55°	115	114
65°	29	29
75°	9	9
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4428.9
2.5°	4383.0
5°	4319.9
7.5°	4205.0
10°	4035.7
12.5°	3869.2
15°	3697.0
17.5°	3504.7
20°	3289.4
22.5°	3065.5
25°	2833.0
27.5°	2574.7
30°	2273.3
32.5°	1908.8
35°	1512.7
37.5°	1162.5
40°	872.6
42.5°	645.9
45°	482.2
47.5°	356.0
50°	258.3
52.5°	178.0
55°	114.9
57.5°	68.9
60°	51.6
62.5°	37.4
65°	28.7
67.5°	20.1
70°	14.4
72.5°	11.5
75°	8.7
77.5°	5.7
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)