

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: P592910

Luminaire Tested: **HC455D010-HM44560850-41MDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592910  
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-HM44560850-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5523.5 lumens  
Efficiency: N/A  
Efficacy: 106.2 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

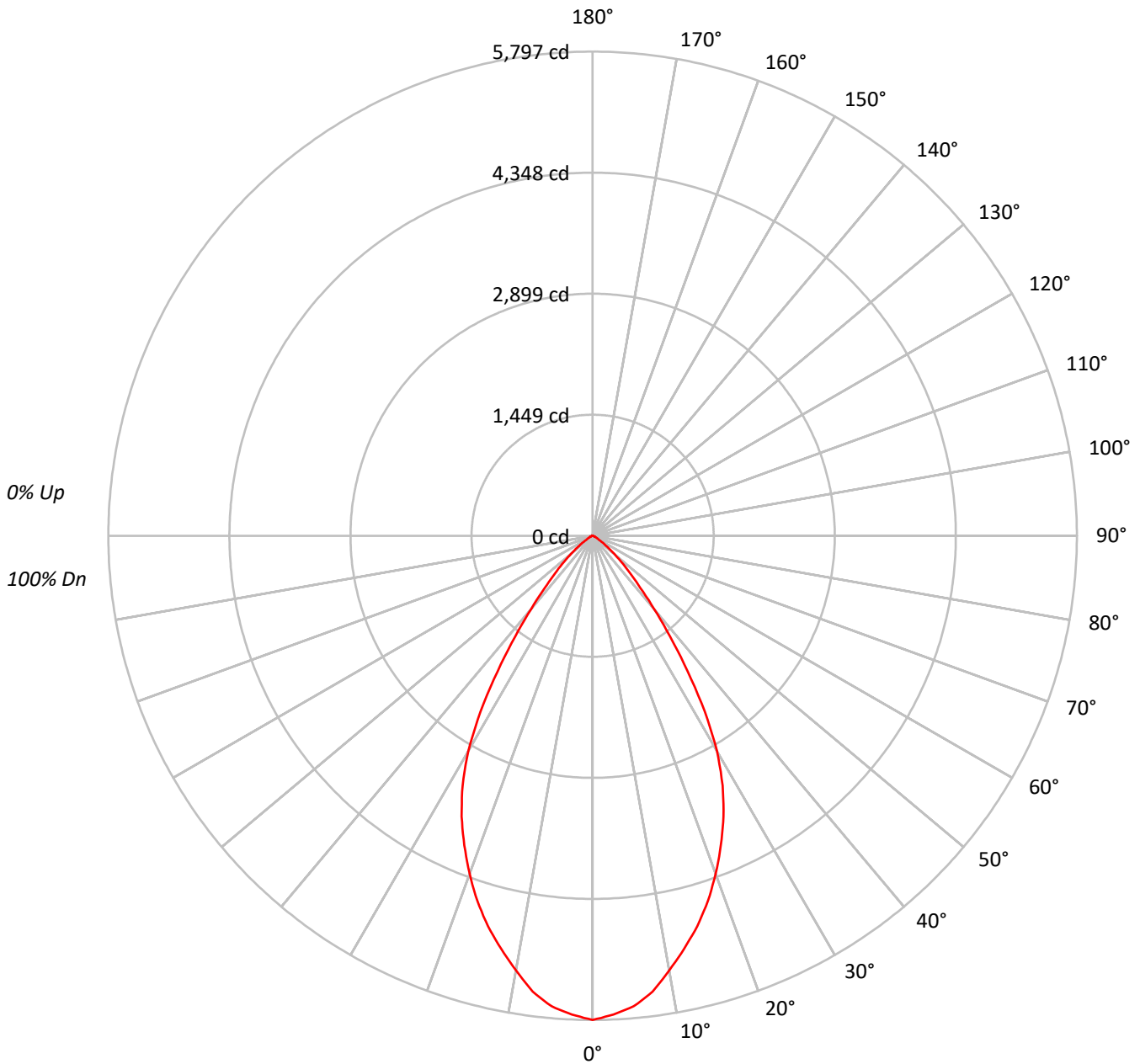
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	715072
5°	700134
10°	661637
15°	617950
20°	565173
25°	504688
30°	423807
35°	298143
40°	183913
45°	110105
50°	64898
55°	32321
60°	16676
65°	10974
70°	6780
75°	5338
80°	2628
85°	5236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.0	9.6
10°-20°	1352.7	24.5
20°-30°	1686.9	30.5
30°-40°	1242.6	22.5
40°-50°	511.1	9.3
50°-60°	149.3	2.7
60°-70°	38.4	0.7
70°-80°	11.9	0.2
80°-90°	2.5	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°	3567.7	64.6
0°-40°	4810.4	87.1
0°-60°	5470.7	99.0
0°-90°	5523.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5523.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5797	
5°	5655	528
15°	4839	1353
25°	3708	1687
35°	1980	1243
45°	631	511
55°	150	149
65°	38	38
75°	11	12
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5797.3
2.5°	5737.2
5°	5654.6
7.5°	5504.3
10°	5282.6
12.5°	5064.6
15°	4839.2
17.5°	4587.5
20°	4305.7
22.5°	4012.6
25°	3708.3
27.5°	3370.2
30°	2975.6
32.5°	2498.5
35°	1980.0
37.5°	1521.7
40°	1142.2
42.5°	845.3
45°	631.2
47.5°	465.9
50°	338.2
52.5°	233.0
55°	150.3
57.5°	90.2
60°	67.6
62.5°	48.8
65°	37.6
67.5°	26.3
70°	18.8
72.5°	15.1
75°	11.2
77.5°	7.5
80°	3.7
82.5°	3.7
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)