

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: P592929

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC455D010-HM44560950-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3984.4 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

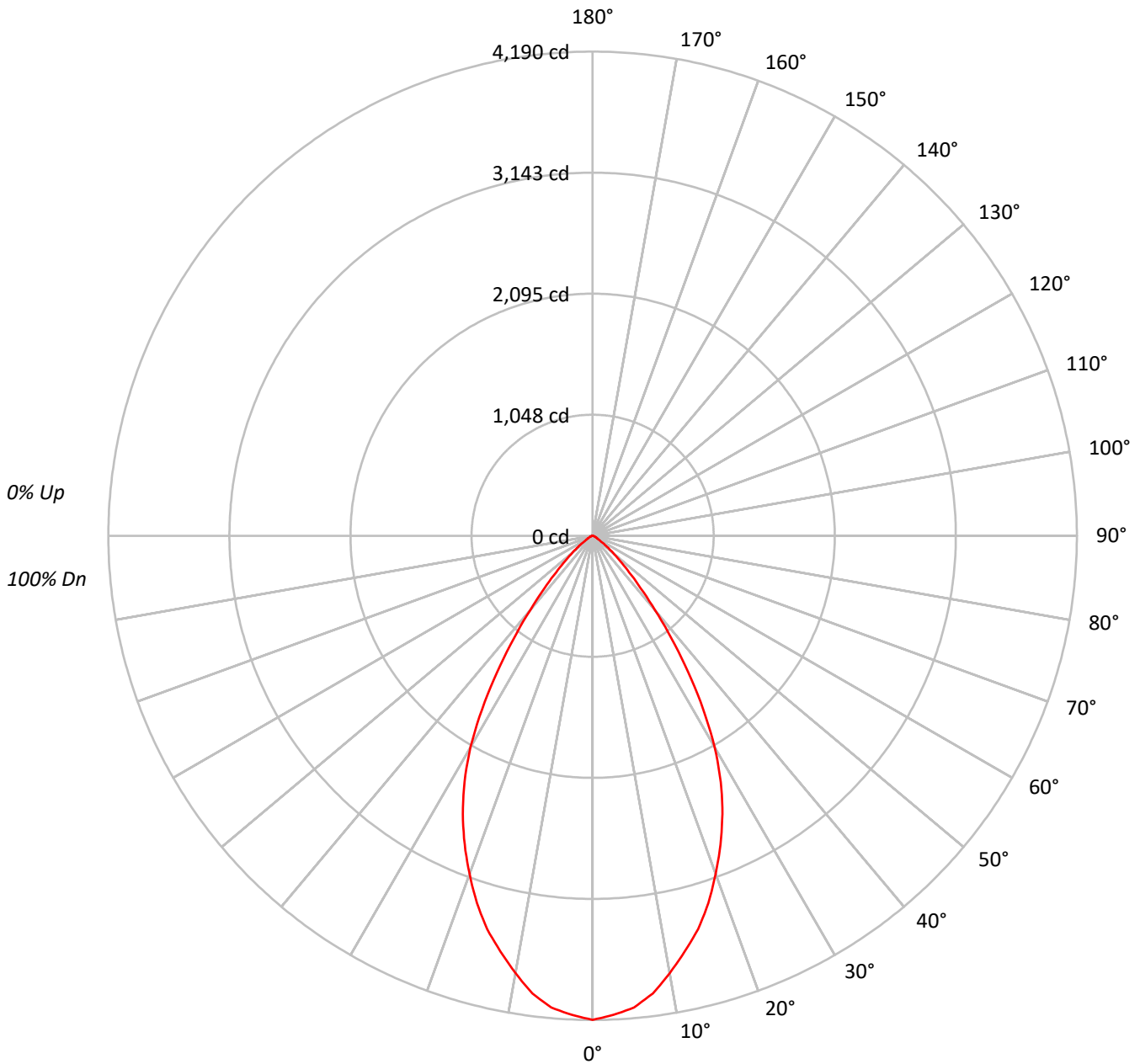
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	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	48	48	48	48

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

	0°
0°	516781
5°	507389
10°	481280
15°	450003
20°	408683
25°	361664
30°	300821
35°	216922
40°	135382
45°	78078
50°	44058
55°	20967
60°	12039
65°	9223
70°	6203
75°	4146
80°	4049
85°	4104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.0	9.6
10°-20°	983.1	24.7
20°-30°	1209.1	30.3
30°-40°	897.9	22.5
40°-50°	365.0	9.2
50°-60°	101.0	2.5
60°-70°	31.5	0.8
70°-80°	10.6	0.3
80°-90°	3.1	0.1
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°	2575.2	64.6
0°-40°	3473.1	87.2
0°-60°	3939.2	98.9
0°-90°	3984.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4190	
5°	4098	383
15°	3524	983
25°	2657	1209
35°	1441	898
45°	448	365
55°	98	101
65°	32	32
75°	9	11
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4189.7
2.5°	4149.6
5°	4097.9
7.5°	3994.5
10°	3842.6
12.5°	3684.7
15°	3524.0
17.5°	3331.7
20°	3113.5
22.5°	2892.6
25°	2657.4
27.5°	2401.9
30°	2112.1
32.5°	1782.1
35°	1440.6
37.5°	1119.1
40°	840.8
42.5°	614.1
45°	447.6
47.5°	321.4
50°	229.6
52.5°	157.8
55°	97.5
57.5°	63.1
60°	48.8
62.5°	40.2
65°	31.6
67.5°	23.0
70°	17.2
72.5°	14.4
75°	8.7
77.5°	5.7
80°	5.7
82.5°	2.9
85°	2.9
87.5°	2.9
90°	0.0



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— 0°-180°







(END OF REPORT)