

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: P581139

Luminaire Tested: **HC455D010-HM44560830-41MDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581139  
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-HM44560830-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4819.5 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

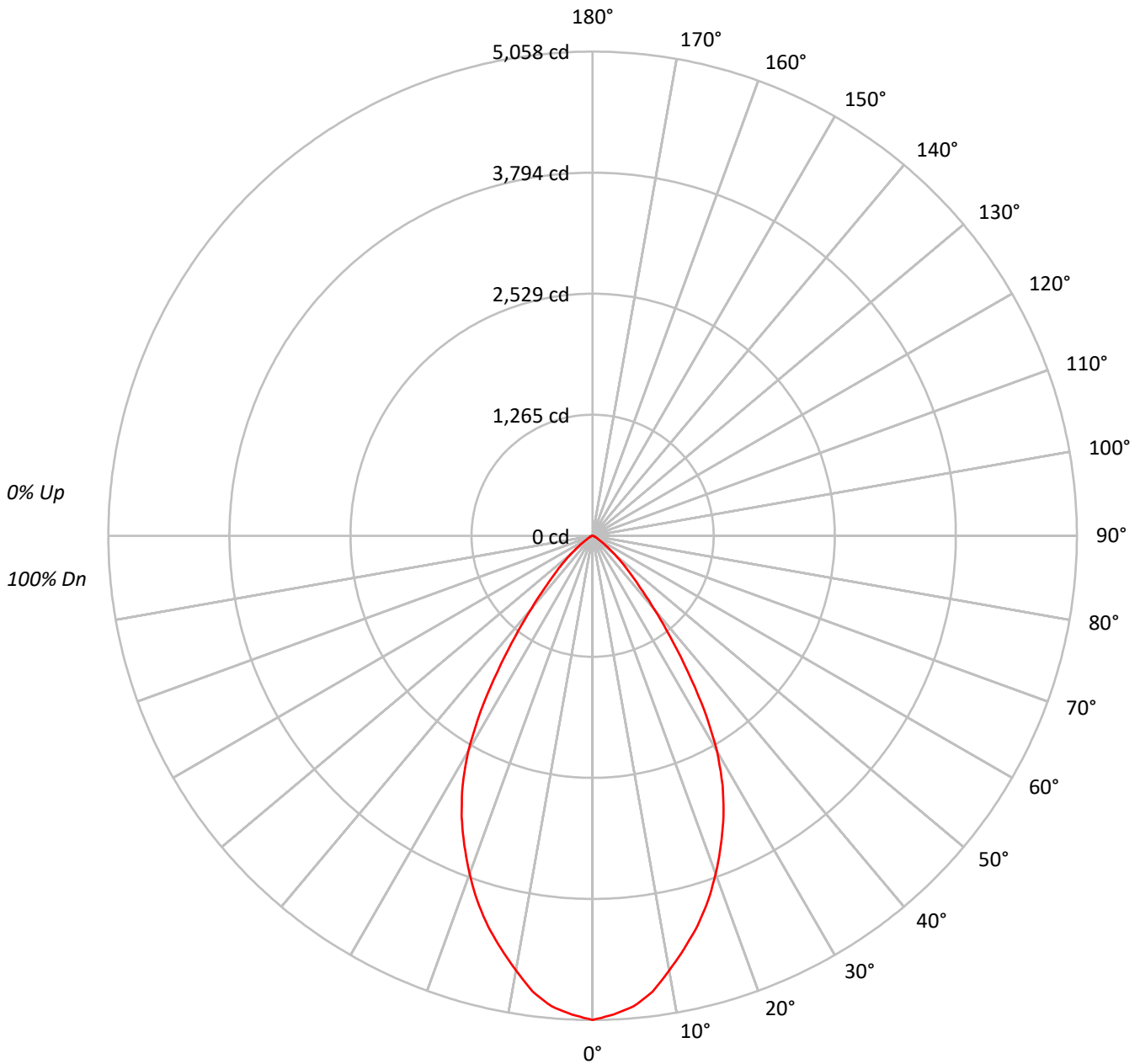
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	623919
5°	610875
10°	577283
15°	539174
20°	493124
25°	440355
30°	369798
35°	260152
40°	160453
45°	96062
50°	56627
55°	28214
60°	14579
65°	9544
70°	5914
75°	4670
80°	2344
85°	4670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.7	9.6
10°-20°	1180.3	24.5
20°-30°	1471.9	30.5
30°-40°	1084.2	22.5
40°-50°	445.9	9.3
50°-60°	130.3	2.7
60°-70°	33.5	0.7
70°-80°	10.4	0.2
80°-90°	2.2	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°	3112.9	64.6
0°-40°	4197.2	87.1
0°-60°	4773.4	99.0
0°-90°	4819.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4819.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5058	
5°	4934	461
15°	4222	1180
25°	3236	1472
35°	1728	1084
45°	551	446
55°	131	130
65°	33	33
75°	10	10
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5058.3
2.5°	5005.8
5°	4933.7
7.5°	4802.6
10°	4609.1
12.5°	4419.0
15°	4222.3
17.5°	4002.8
20°	3756.8
22.5°	3501.1
25°	3235.6
27.5°	2940.5
30°	2596.4
32.5°	2180.0
35°	1727.7
37.5°	1327.7
40°	996.5
42.5°	737.6
45°	550.7
47.5°	406.5
50°	295.1
52.5°	203.3
55°	131.2
57.5°	78.6
60°	59.1
62.5°	42.6
65°	32.7
67.5°	23.0
70°	16.4
72.5°	13.2
75°	9.8
77.5°	6.5
80°	3.3
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)