

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: P580765

Luminaire Tested: **HC445D010-HM44560927-41MDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC445D010-HM44560927-41MDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

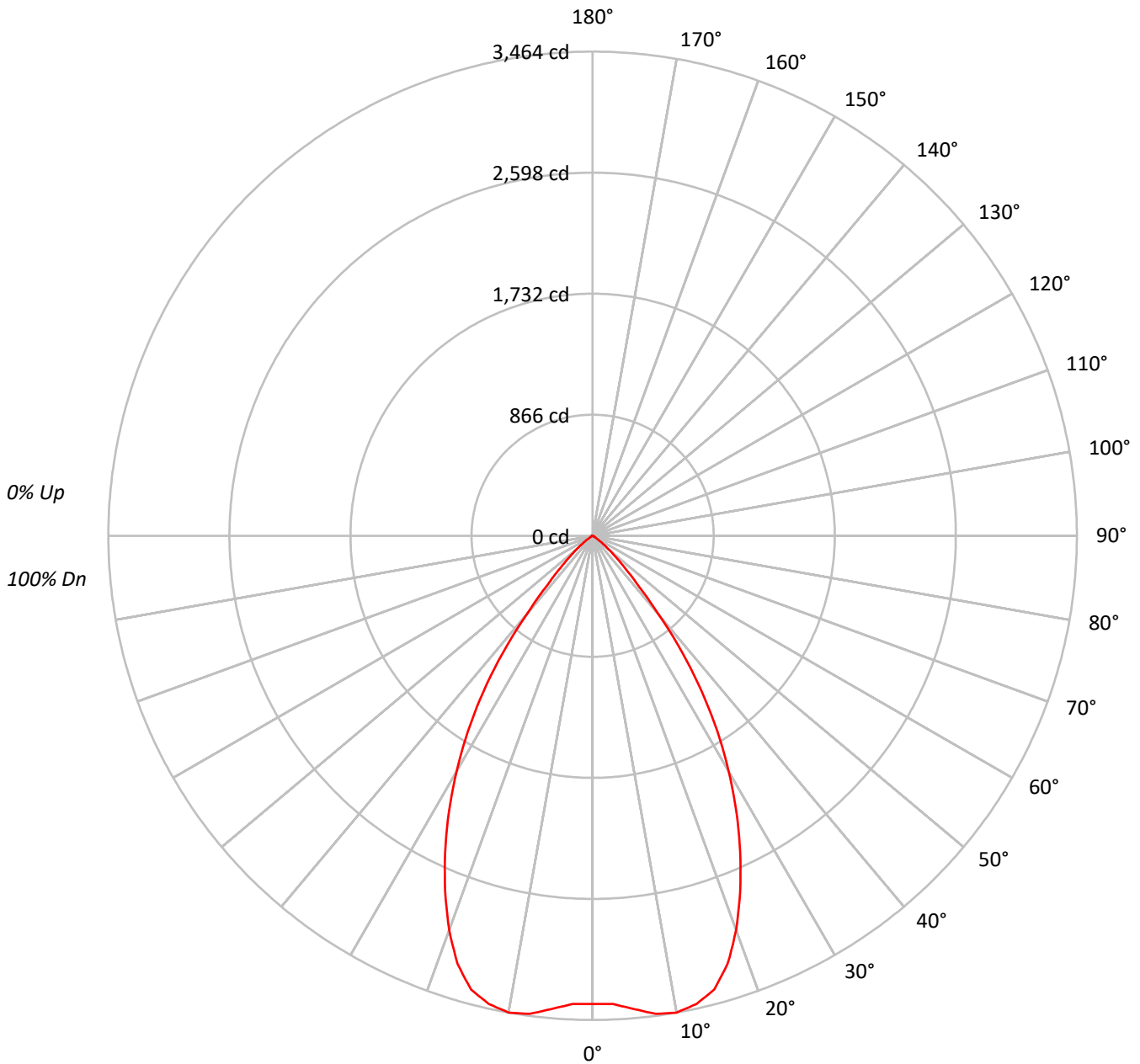
Lumens per Lamp: N/A  
Luminaire Lumens: 3567.7 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.96  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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



TEST NUMBER: P580765  
CATALOG NUMBER: HC445D010-HM44560927-41MDC

### Luminous Intensity Polar Plot





TEST NUMBER: P580765

CATALOG NUMBER: HC445D010-HM44560927-41MDC

**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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74			
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	64	60	57	56			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52			
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49			

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

	0°
0°	413233
5°	420828
10°	433798
15°	428997
20°	393929
25°	339834
30°	276936
35°	205056
40°	117638
45°	56884
50°	27057
55°	9462
60°	3429
65°	2043
70°	1659
75°	1144
80°	0
85°	0



TEST NUMBER: P580765

CATALOG NUMBER: HC445D010-HM44560927-41MDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.9	9.2
10°-20°	931.3	26.1
20°-30°	1137.3	31.9
30°-40°	836.1	23.4
40°-50°	277.1	7.8
50°-60°	49.0	1.4
60°-70°	7.4	0.2
70°-80°	2.5	0.1
80°-90°	0.0	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°	2395.6	67.1
0°-40°	3231.7	90.6
0°-60°	3557.8	99.7
0°-90°	3567.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3350	
5°	3399	327
15°	3360	931
25°	2497	1137
35°	1362	836
45°	326	277
55°	44	49
65°	7	7
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P580765

CATALOG NUMBER: HC445D010-HM44560927-41MDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3350.2
2.5°	3352.5
5°	3398.8
7.5°	3449.6
10°	3463.5
12.5°	3431.1
15°	3359.5
17.5°	3211.5
20°	3001.1
22.5°	2756.0
25°	2497.0
27.5°	2226.5
30°	1944.4
32.5°	1662.4
35°	1361.8
37.5°	1056.6
40°	730.6
42.5°	483.2
45°	326.1
47.5°	217.3
50°	141.0
52.5°	83.3
55°	44.0
57.5°	18.5
60°	13.9
62.5°	9.2
65°	7.0
67.5°	4.6
70°	4.6
72.5°	2.4
75°	2.4
77.5°	2.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)