

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: P580734

Luminaire Tested: **HC445D010-HM44560835-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC445D010-HM44560835-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4208.6 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

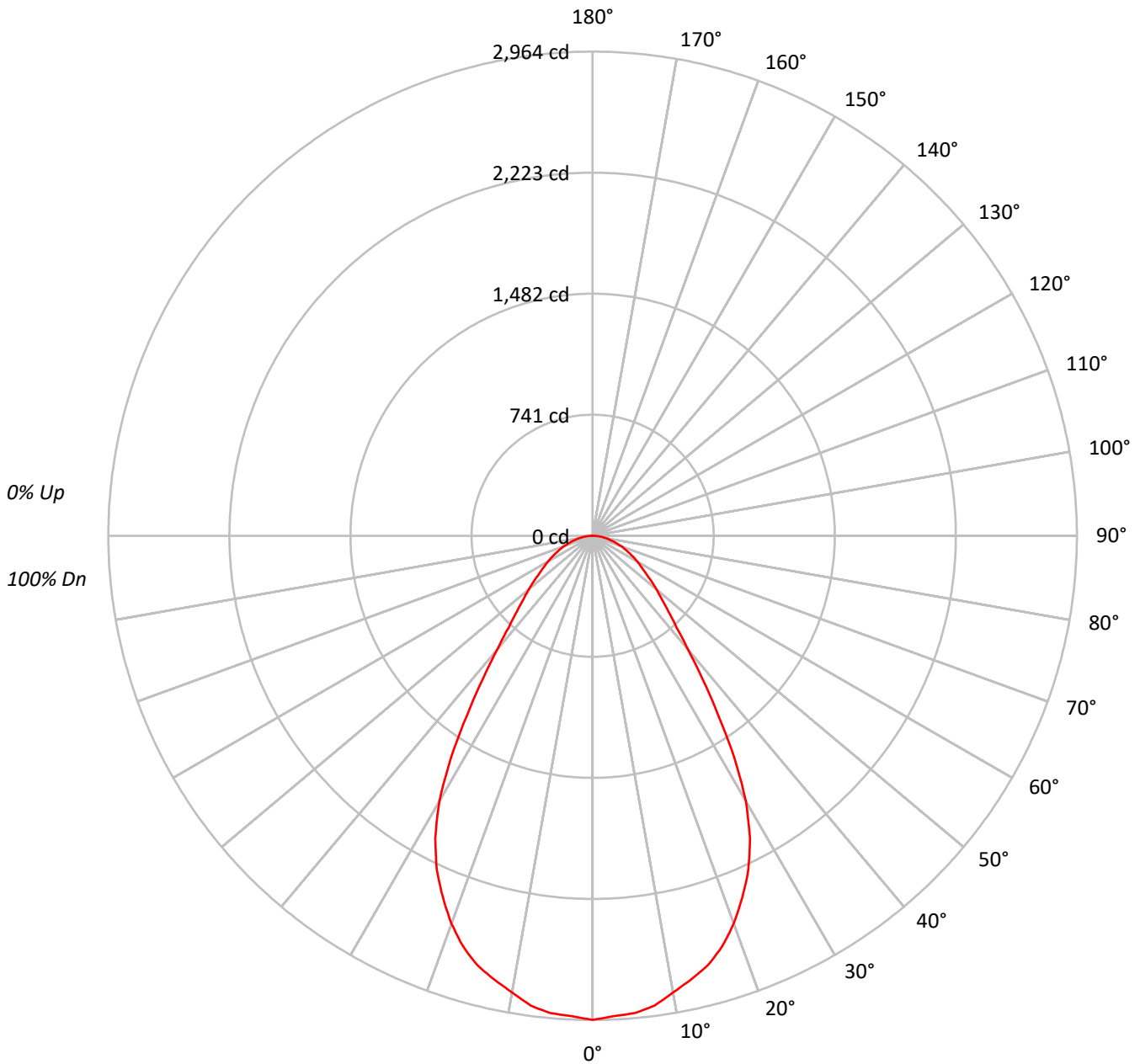
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P580734

CATALOG NUMBER: HC445D010-HM44560835-41PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580734

CATALOG NUMBER: HC445D010-HM44560835-41PSMDW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63																			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57																			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44																			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																			

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

	0°
0°	365572
5°	363266
10°	355555
15°	347667
20°	331606
25°	306980
30°	266994
35°	201623
40°	146138
45°	114204
50°	97635
55°	84470
60°	77806
65°	71214
70°	66538
75°	60953
80°	57039
85°	54769



TEST NUMBER: P580734

CATALOG NUMBER: HC445D010-HM44560835-41PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.1	6.6
10°-20°	762.7	18.1
20°-30°	1025.6	24.4
30°-40°	843.3	20.0
40°-50°	517.9	12.3
50°-60°	358.4	8.5
60°-70°	244.3	5.8
70°-80°	136.1	3.2
80°-90°	43.3	1.0
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°	2065.3	49.1
0°-40°	2908.6	69.1
0°-60°	3784.9	89.9
0°-90°	4208.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4208.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2964	
5°	2934	277
15°	2723	763
25°	2256	1026
35°	1339	843
45°	655	518
55°	393	358
65°	244	244
75°	128	136
85°	39	43
90°	0	



TEST NUMBER: P580734

CATALOG NUMBER: HC445D010-HM44560835-41PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2963.8
2.5°	2942.9
5°	2933.9
7.5°	2901.3
10°	2838.8
12.5°	2782.2
15°	2722.6
17.5°	2636.4
20°	2526.3
22.5°	2395.4
25°	2255.6
27.5°	2085.9
30°	1874.6
32.5°	1615.8
35°	1339.0
37.5°	1101.0
40°	907.6
42.5°	758.8
45°	654.7
47.5°	574.2
50°	508.8
52.5°	449.4
55°	392.8
57.5°	351.1
60°	315.4
62.5°	279.7
65°	244.0
67.5°	214.2
70°	184.5
72.5°	154.7
75°	127.9
77.5°	101.2
80°	80.3
82.5°	59.5
85°	38.7
87.5°	20.9
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)