

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: P580716

Luminaire Tested: **HC445D010-HM44560830-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580716  
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-HM44560830-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4186.3 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

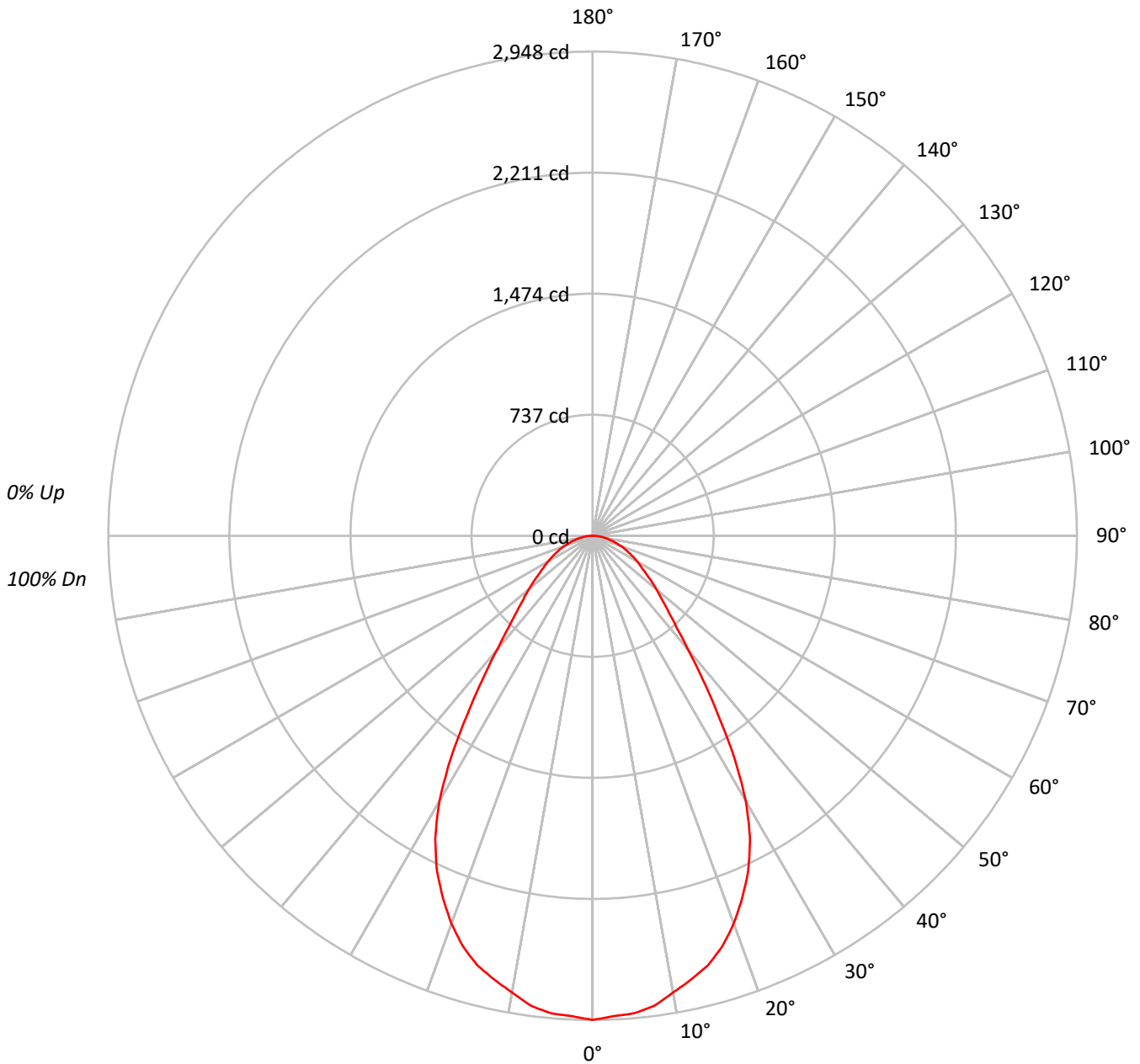
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	363611
5°	361335
10°	353651
15°	345828
20°	329834
25°	305347
30°	265584
35°	200554
40°	145365
45°	113576
50°	97116
55°	84019
60°	77387
65°	70835
70°	66213
75°	60620
80°	56755
85°	54486



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.6	6.6
10°-20°	758.6	18.1
20°-30°	1020.1	24.4
30°-40°	838.8	20.0
40°-50°	515.1	12.3
50°-60°	356.5	8.5
60°-70°	243.0	5.8
70°-80°	135.4	3.2
80°-90°	43.1	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°	2054.3	49.1
0°-40°	2893.1	69.1
0°-60°	3764.7	89.9
0°-90°	4186.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2948	
5°	2918	276
15°	2708	759
25°	2244	1020
35°	1332	839
45°	651	515
55°	391	356
65°	243	243
75°	127	135
85°	38	43
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2947.9
2.5°	2927.2
5°	2918.3
7.5°	2885.8
10°	2823.6
12.5°	2767.4
15°	2708.2
17.5°	2622.3
20°	2512.8
22.5°	2382.6
25°	2243.6
27.5°	2074.8
30°	1864.7
32.5°	1607.2
35°	1331.9
37.5°	1095.1
40°	902.8
42.5°	754.8
45°	651.1
47.5°	571.2
50°	506.1
52.5°	446.9
55°	390.7
57.5°	349.3
60°	313.7
62.5°	278.3
65°	242.7
67.5°	213.1
70°	183.6
72.5°	153.9
75°	127.2
77.5°	100.6
80°	79.9
82.5°	59.2
85°	38.5
87.5°	20.8
90°	0.0



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— 0°-180°







(END OF REPORT)