

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: P580745

Luminaire Tested: **HC445D010-HM44560840-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC445D010-HM44560840-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5418.8 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

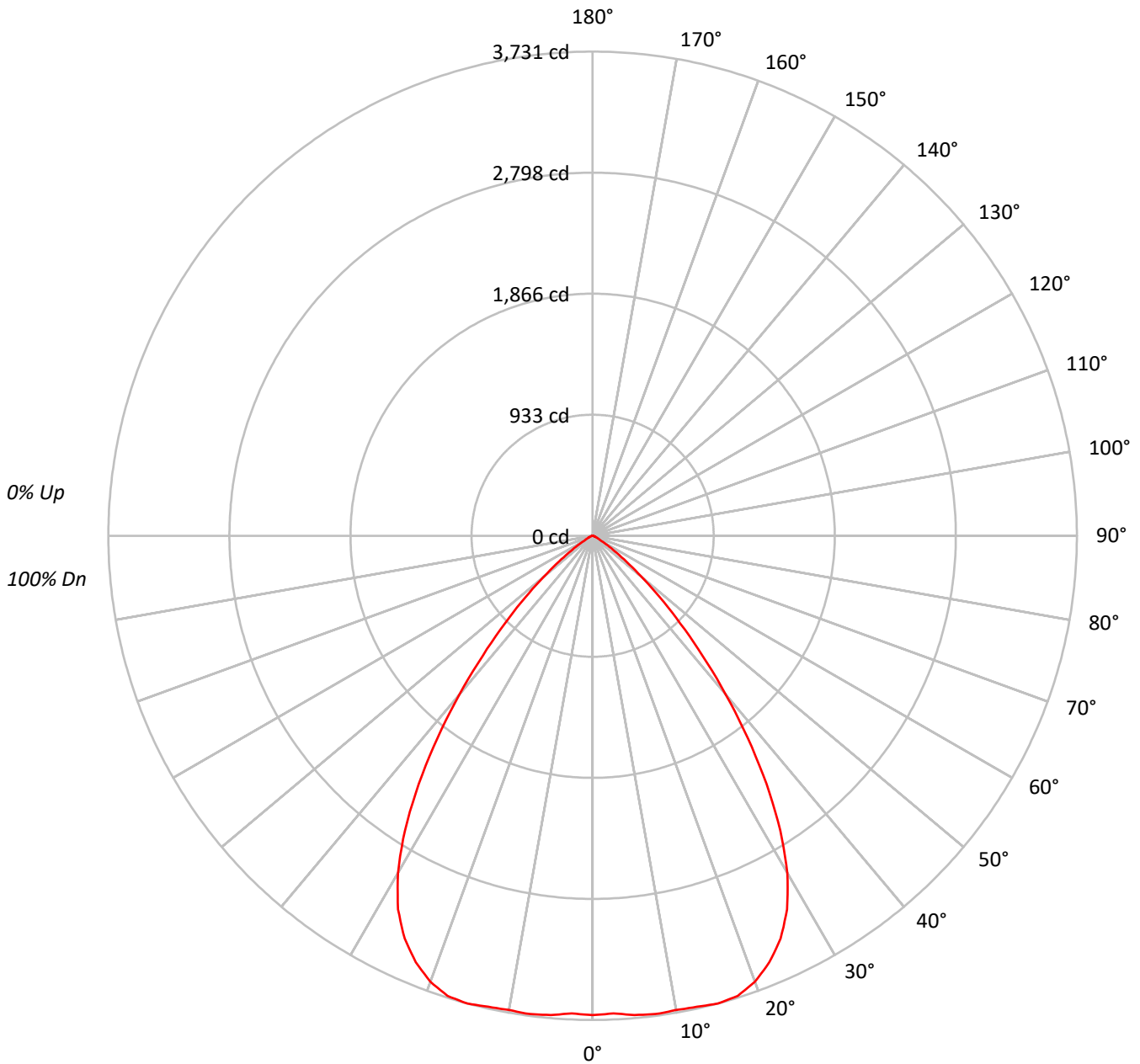
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84		
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69		
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63		
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58		
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53		
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49		
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45		
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42		

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

	0°
0°	455589
5°	459014
10°	464747
15°	476437
20°	479932
25°	466200
30°	427438
35°	351703
40°	256370
45°	166396
50°	93816
55°	44536
60°	17564
65°	10916
70°	7357
75°	4861
80°	2415
85°	4812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.0	6.5
10°-20°	1051.9	19.4
20°-30°	1560.1	28.8
30°-40°	1441.0	26.6
40°-50°	752.4	13.9
50°-60°	206.2	3.8
60°-70°	39.7	0.7
70°-80°	11.2	0.2
80°-90°	2.3	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°	2966.0	54.7
0°-40°	4407.0	81.3
0°-60°	5365.6	99.0
0°-90°	5418.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5418.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3694	
5°	3707	354
15°	3731	1052
25°	3426	1560
35°	2336	1441
45°	954	752
55°	207	206
65°	37	40
75°	10	11
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3693.6
2.5°	3683.4
5°	3707.2
7.5°	3717.4
10°	3710.6
12.5°	3717.4
15°	3731.0
17.5°	3717.4
20°	3656.3
22.5°	3557.9
25°	3425.5
27.5°	3245.5
30°	3001.1
32.5°	2692.1
35°	2335.7
37.5°	1962.3
40°	1592.2
42.5°	1252.7
45°	953.9
47.5°	699.3
50°	488.9
52.5°	325.9
55°	207.1
57.5°	122.2
60°	71.2
62.5°	50.9
65°	37.4
67.5°	27.2
70°	20.4
72.5°	13.6
75°	10.2
77.5°	6.8
80°	3.4
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)