

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: P580709

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580709  
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-HM44560830-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4727.8 lumens  
Efficiency: N/A  
Efficacy: 107.5 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

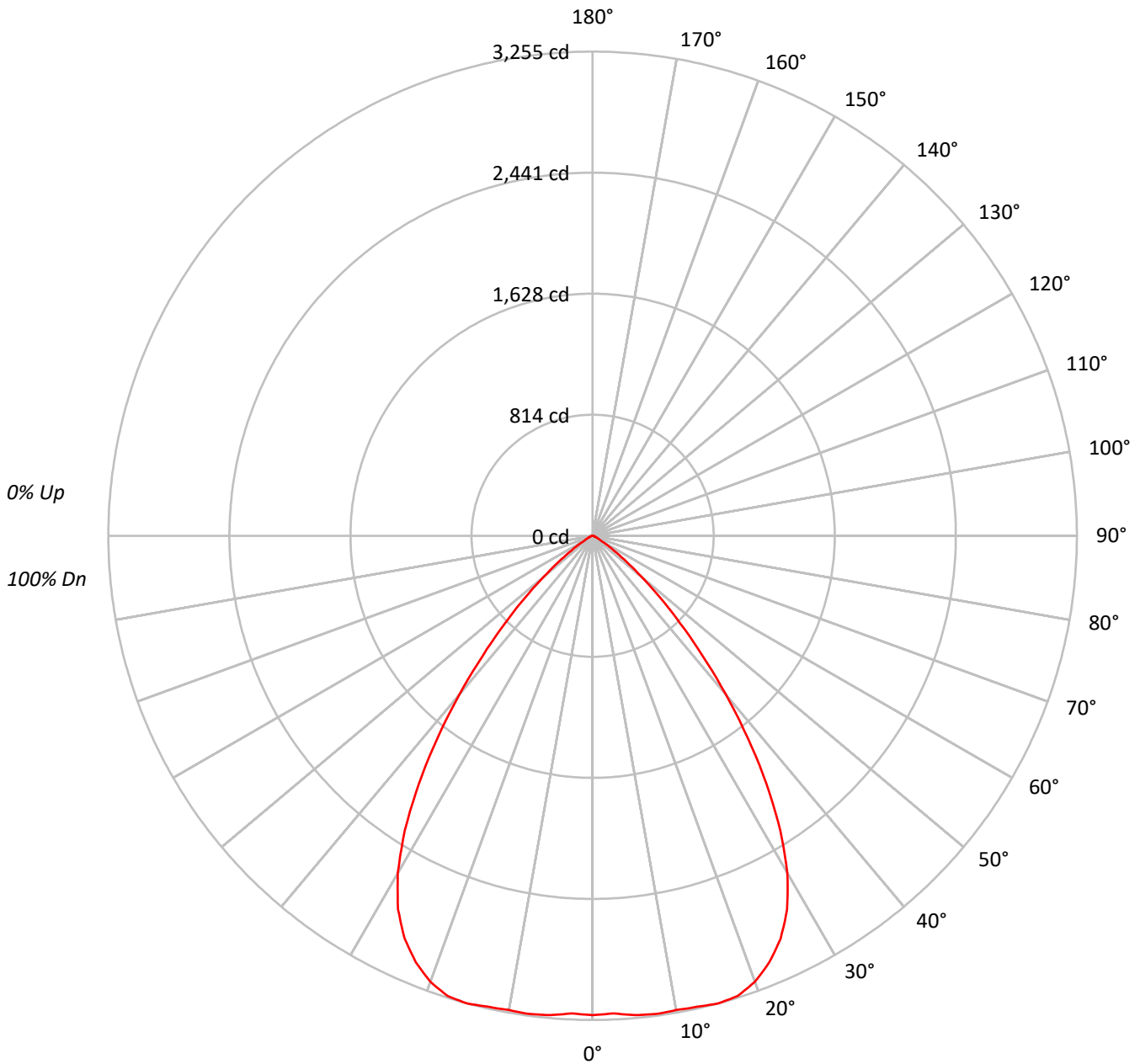
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	397518
5°	400498
10°	405504
15°	415704
20°	418751
25°	406766
30°	372946
35°	306861
40°	223700
45°	145184
50°	81861
55°	38837
60°	15344
65°	9485
70°	6383
75°	4241
80°	2060
85°	4104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.9	6.5
10°-20°	917.8	19.4
20°-30°	1361.2	28.8
30°-40°	1257.3	26.6
40°-50°	656.5	13.9
50°-60°	179.9	3.8
60°-70°	34.6	0.7
70°-80°	9.7	0.2
80°-90°	2.0	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°	2587.9	54.7
0°-40°	3845.2	81.3
0°-60°	4681.5	99.0
0°-90°	4727.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4727.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3223	
5°	3235	309
15°	3255	918
25°	2989	1361
35°	2038	1257
45°	832	656
55°	181	180
65°	32	35
75°	9	10
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3222.8
2.5°	3213.9
5°	3234.6
7.5°	3243.5
10°	3237.6
12.5°	3243.5
15°	3255.4
17.5°	3243.5
20°	3190.2
22.5°	3104.3
25°	2988.8
27.5°	2831.8
30°	2618.5
32.5°	2348.9
35°	2037.9
37.5°	1712.1
40°	1389.3
42.5°	1093.1
45°	832.3
47.5°	610.1
50°	426.6
52.5°	284.3
55°	180.6
57.5°	106.6
60°	62.2
62.5°	44.4
65°	32.5
67.5°	23.7
70°	17.7
72.5°	11.9
75°	8.9
77.5°	5.9
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)