

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P584665

Luminaire Tested: **HCC8W45D010SL-HM82555830-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W45D010SL-HM82555830-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

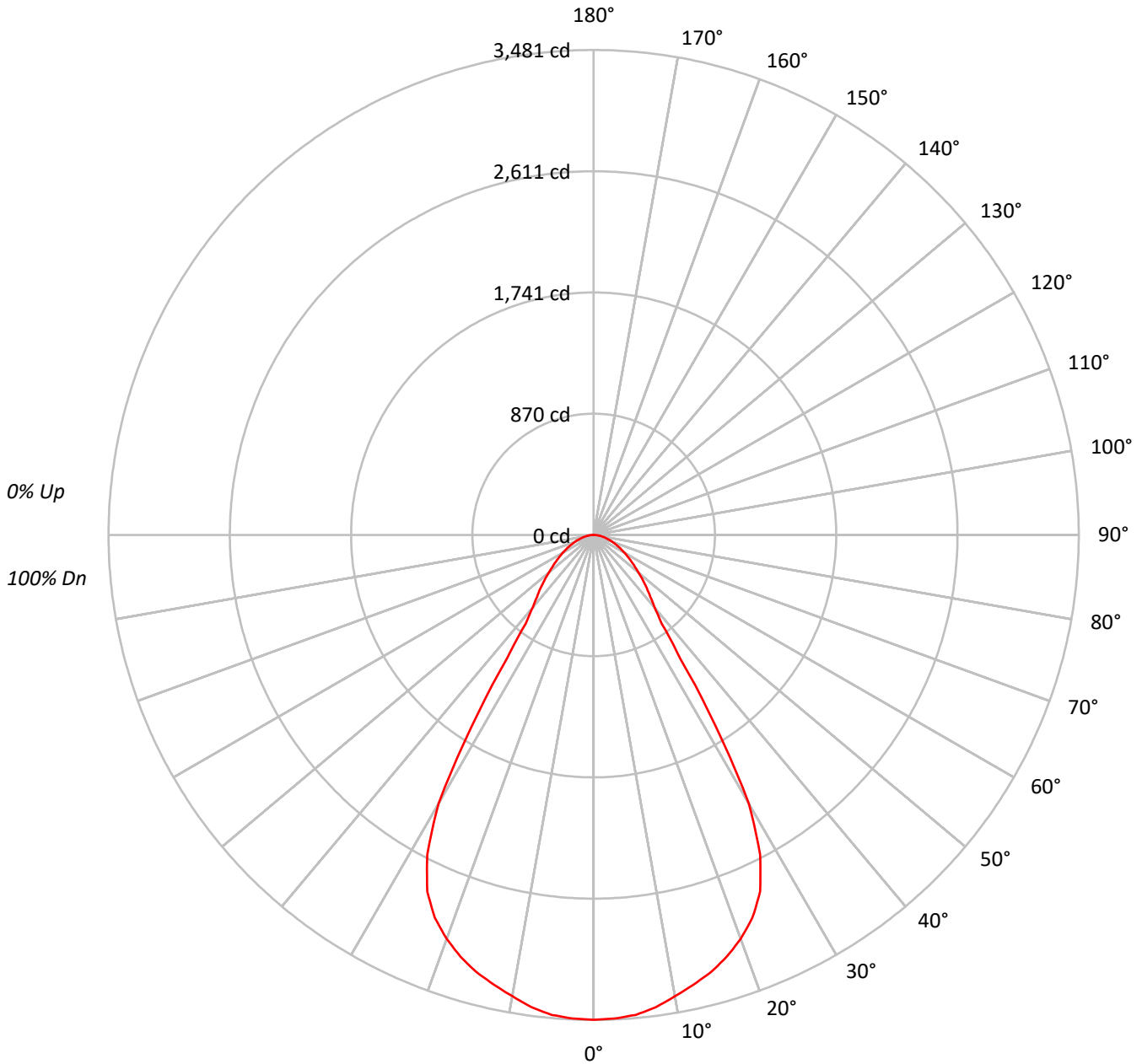
Lumens per Lamp: N/A  
Luminaire Lumens: 4306.1 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81				
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73				
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67				
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61				
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52				
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48				
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45				
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42				

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

	0°
0°	107329
5°	107042
10°	105262
15°	103725
20°	101235
25°	96101
30°	79264
35°	40810
40°	27324
45°	23427
50°	20221
55°	17639
60°	15677
65°	14082
70°	12767
75°	11497
80°	10282
85°	10260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.0	7.6
10°-20°	914.1	21.2
20°-30°	1266.6	29.4
30°-40°	760.7	17.7
40°-50°	416.5	9.7
50°-60°	295.9	6.9
60°-70°	192.1	4.5
70°-80°	102.6	2.4
80°-90°	30.7	0.7
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°	2507.7	58.2
0°-40°	3268.4	75.9
0°-60°	3980.7	92.4
0°-90°	4306.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4306.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3481	
5°	3458	327
15°	3249	914
25°	2824	1267
35°	1084	761
45°	537	416
55°	328	296
65°	193	192
75°	96	103
85°	29	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3480.6
2.5°	3474.3
5°	3458.1
7.5°	3419.5
10°	3361.7
12.5°	3306.9
15°	3249.1
17.5°	3175.1
20°	3085.0
22.5°	2975.7
25°	2824.5
27.5°	2586.3
30°	2226.1
32.5°	1630.9
35°	1084.1
37.5°	801.0
40°	678.8
42.5°	601.5
45°	537.2
47.5°	476.1
50°	421.5
52.5°	370.0
55°	328.1
57.5°	289.5
60°	254.2
62.5°	221.9
65°	193.0
67.5°	164.1
70°	141.6
72.5°	115.8
75°	96.5
77.5°	77.2
80°	57.9
82.5°	41.9
85°	29.0
87.5°	12.9
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)