

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: P584808

Luminaire Tested: **HCC8W50D010MB-HM82555830-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W50D010MB-HM82555830-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

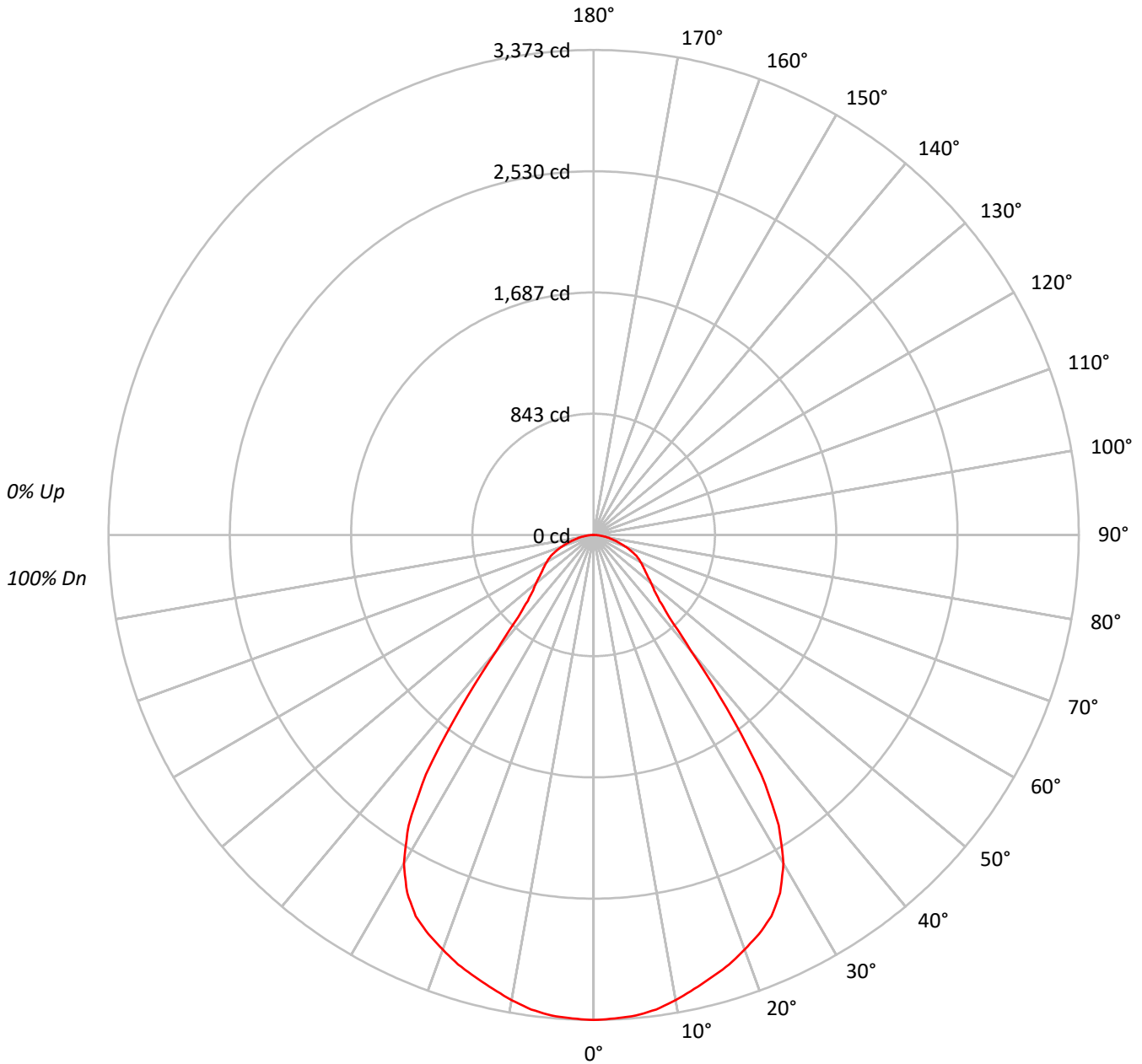
Lumens per Lamp: N/A  
Luminaire Lumens: 5202.9 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96		97	95	94		94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84		89	85	82		86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	74	66	61	82	73	66	61	71	65	60		69	64	59		67	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62	58	54	52
7	74	63	56	50	73	62	55	50	61	54	50		59	54	50		58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	43	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°	104020
5°	103891
10°	102863
15°	101630
20°	100691
25°	99558
30°	93941
35°	76497
40°	42263
45°	28211
50°	25023
55°	23488
60°	23189
65°	22977
70°	20764
75°	18562
80°	16231
85°	14400



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.1	6.1
10°-20°	898.9	17.3
20°-30°	1335.7	25.7
30°-40°	1202.9	23.1
40°-50°	533.2	10.2
50°-60°	394.9	7.6
60°-70°	307.1	5.9
70°-80°	166.5	3.2
80°-90°	45.6	0.9
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°	2552.7	49.1
0°-40°	3755.5	72.2
0°-60°	4683.7	90.0
0°-90°	5202.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5202.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3373	
5°	3356	318
15°	3184	899
25°	2926	1336
35°	2032	1203
45°	647	533
55°	437	395
65°	315	307
75°	156	166
85°	41	46
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3373.3
2.5°	3366.5
5°	3356.3
7.5°	3329.2
10°	3285.1
12.5°	3234.4
15°	3183.5
17.5°	3132.8
20°	3068.4
22.5°	3004.1
25°	2926.1
27.5°	2807.6
30°	2638.3
32.5°	2394.5
35°	2032.1
37.5°	1517.2
40°	1049.9
42.5°	775.5
45°	646.9
47.5°	572.3
50°	521.6
52.5°	474.1
55°	436.9
57.5°	406.5
60°	376.0
62.5°	348.8
65°	314.9
67.5°	274.4
70°	230.3
72.5°	193.0
75°	155.8
77.5°	121.9
80°	91.4
82.5°	64.3
85°	40.7
87.5°	17.0
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)