

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: P584924

Luminaire Tested: **HCC8S55D010MB-HM82555827-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S55D010MB-HM82555827-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

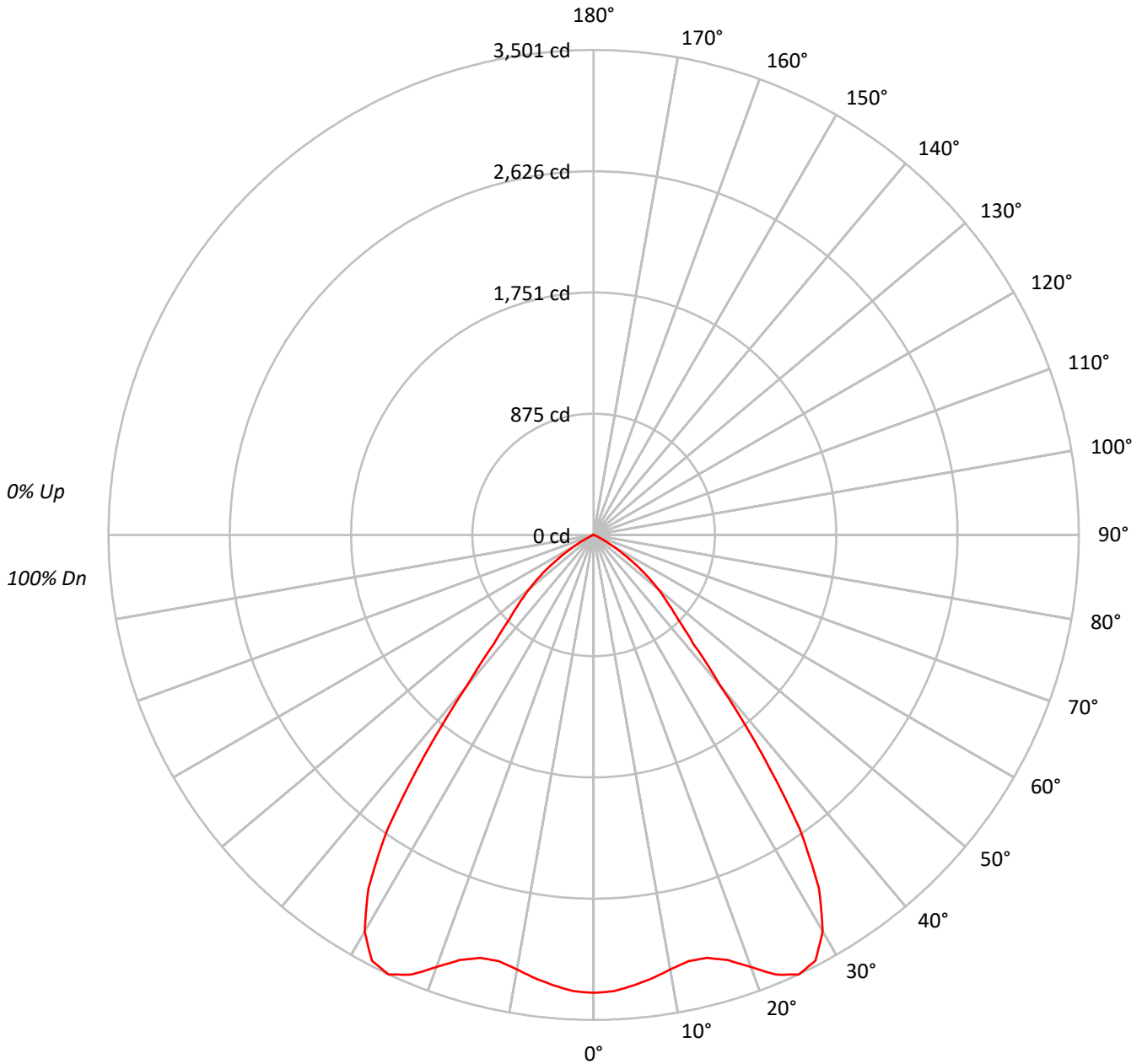
Lumens per Lamp: N/A  
Luminaire Lumens: 5439.2 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

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

	0°
0°	101911
5°	101065
10°	99729
15°	100871
20°	108930
25°	119118
30°	117677
35°	97611
40°	57454
45°	37534
50°	29095
55°	19333
60°	9405
65°	2919
70°	983
75°	870
80°	639
85°	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.2	5.7
10°-20°	907.7	16.7
20°-30°	1587.1	29.2
30°-40°	1543.8	28.4
40°-50°	702.1	12.9
50°-60°	325.5	6.0
60°-70°	54.6	1.0
70°-80°	6.7	0.1
80°-90°	2.4	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°	2804.1	51.6
0°-40°	4347.9	79.9
0°-60°	5375.5	98.8
0°-90°	5439.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5439.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3305	
5°	3265	309
15°	3160	908
25°	3501	1587
35°	2593	1544
45°	861	702
55°	360	326
65°	40	55
75°	7	7
85°	4	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3304.9
2.5°	3297.7
5°	3265.0
7.5°	3228.6
10°	3185.0
12.5°	3152.4
15°	3159.7
17.5°	3217.7
20°	3319.5
22.5°	3435.7
25°	3501.0
27.5°	3464.8
30°	3304.9
32.5°	3025.3
35°	2593.0
37.5°	1997.4
40°	1427.3
42.5°	1064.1
45°	860.7
47.5°	726.4
50°	606.5
52.5°	483.0
55°	359.6
57.5°	246.9
60°	152.5
62.5°	83.6
65°	40.0
67.5°	18.2
70°	10.9
72.5°	7.3
75°	7.3
77.5°	3.6
80°	3.6
82.5°	3.6
85°	3.6
87.5°	0.0
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)