

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: P584707

Luminaire Tested: **HCC8S45D010MB-HM82555840-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S45D010MB-HM82555840-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

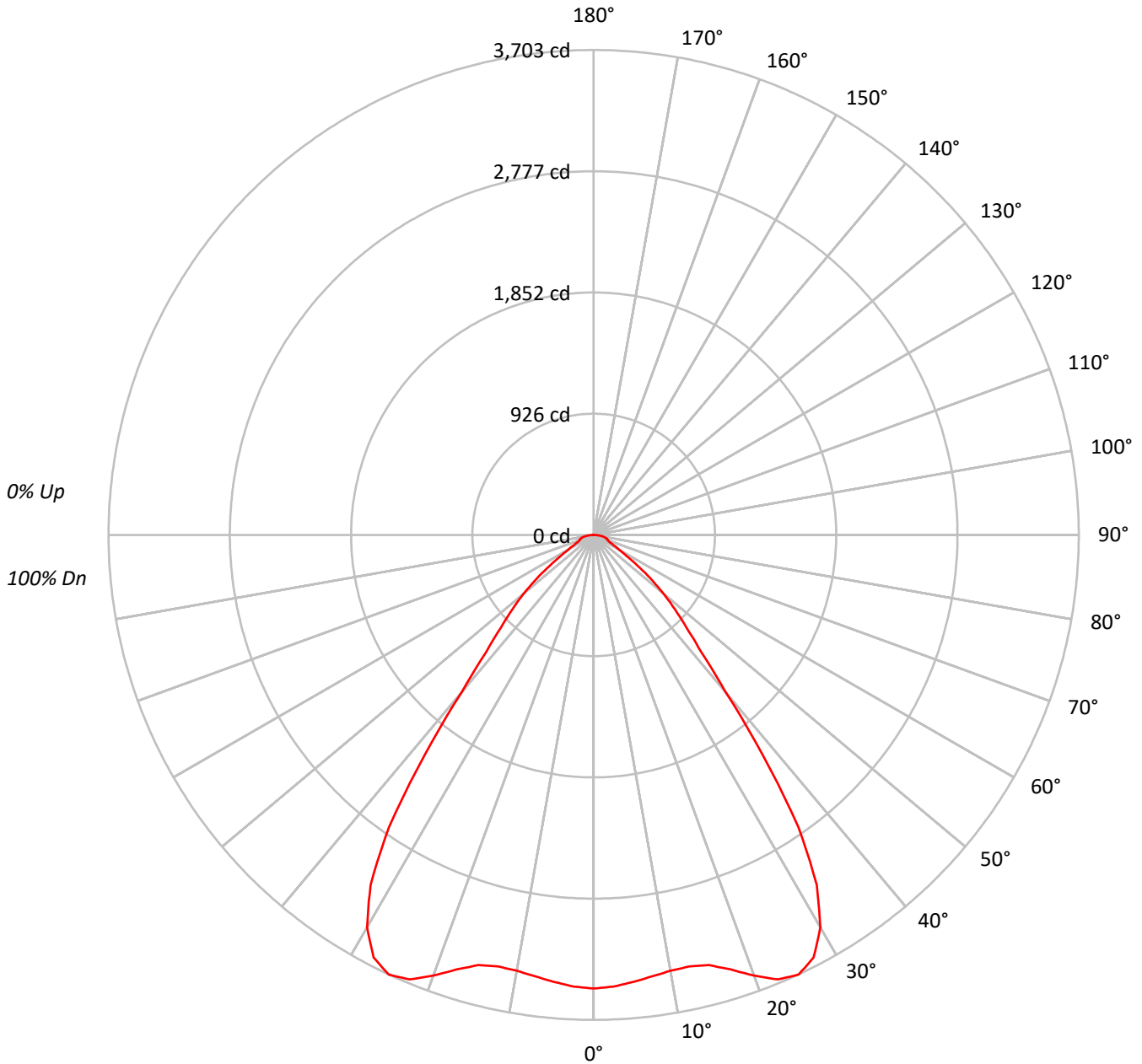
Lumens per Lamp: N/A  
Luminaire Lumens: 6080.8 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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									20								
RC	80									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	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	100	100	100	100	100	100	100	100	100	100																						
	1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90	90	90	90	90	90	90	90	90	90	90	90	90	90																						
	2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81																					
	3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73																					
	4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65																				
	5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59																				
	6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54																				
	7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49																				
	8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45																				
	9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41																				
	10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38																				

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

	0°
0°	106792
5°	106058
10°	105778
15°	108555
20°	117525
25°	125998
30°	123181
35°	102573
40°	63018
45°	43635
50°	33298
55°	21833
60°	13667
65°	10237
70°	10323
75°	11878
80°	13123
85°	11746



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.5	5.4
10°-20°	976.1	16.1
20°-30°	1680.5	27.6
30°-40°	1628.1	26.8
40°-50°	801.9	13.2
50°-60°	378.4	6.2
60°-70°	149.2	2.5
70°-80°	102.9	1.7
80°-90°	38.2	0.6
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°	2982.1	49.0
0°-40°	4610.2	75.8
0°-60°	5790.6	95.2
0°-90°	6080.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6080.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3463	
5°	3426	326
15°	3400	976
25°	3703	1680
35°	2725	1628
45°	1001	802
55°	406	378
65°	140	149
75°	100	103
85°	33	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3463.2
2.5°	3452.1
5°	3426.3
7.5°	3400.4
10°	3378.2
12.5°	3374.6
15°	3400.4
17.5°	3477.9
20°	3581.4
22.5°	3673.6
25°	3703.2
27.5°	3636.8
30°	3459.5
32.5°	3167.8
35°	2724.8
37.5°	2115.6
40°	1565.5
42.5°	1214.8
45°	1000.6
47.5°	841.7
50°	694.1
52.5°	546.4
55°	406.1
57.5°	295.4
60°	221.6
62.5°	173.5
65°	140.3
67.5°	121.9
70°	114.5
72.5°	107.1
75°	99.7
77.5°	88.6
80°	73.9
82.5°	55.4
85°	33.2
87.5°	14.8
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)