

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: P584917

Luminaire Tested: **HCC8S55D010BZ-HM82555827-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S55D010BZ-HM82555827-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

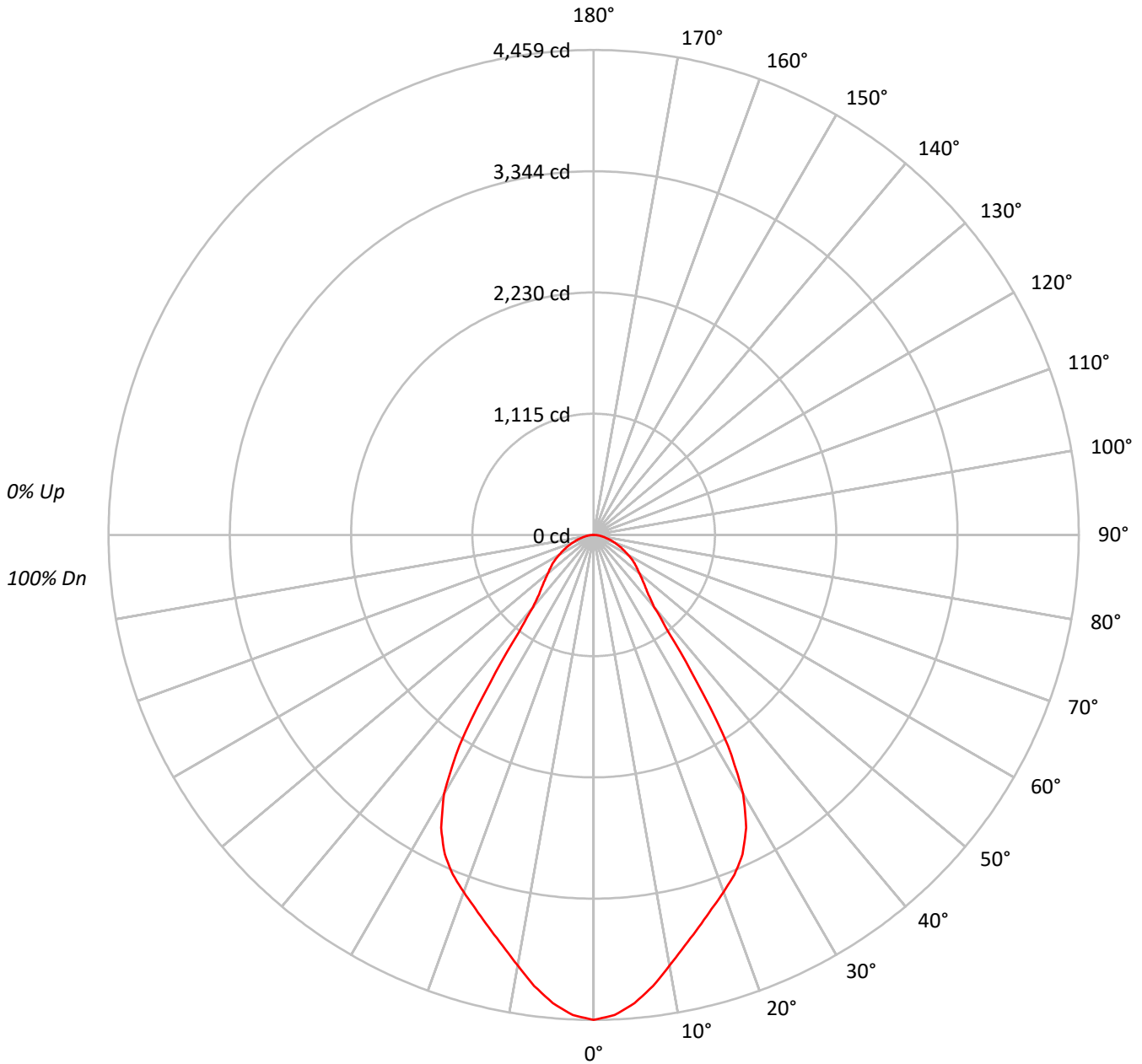
Lumens per Lamp: N/A  
Luminaire Lumens: 5377.6 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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
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	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
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	46	42	50	45	42	40		

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

	0°
0°	137502
5°	133759
10°	125865
15°	119169
20°	114634
25°	110207
30°	97876
35°	62331
40°	34787
45°	29140
50°	26303
55°	24795
60°	22615
65°	20401
70°	18005
75°	16001
80°	14189
85°	12843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.8	7.5
10°-20°	1052.8	19.6
20°-30°	1468.7	27.3
30°-40°	1056.8	19.7
40°-50°	523.8	9.7
50°-60°	409.8	7.6
60°-70°	277.4	5.2
70°-80°	144.1	2.7
80°-90°	41.5	0.8
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°	2924.3	54.4
0°-40°	3981.0	74.0
0°-60°	4914.6	91.4
0°-90°	5377.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5377.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4459	
5°	4321	403
15°	3733	1053
25°	3239	1469
35°	1656	1057
45°	668	524
55°	461	410
65°	280	277
75°	134	144
85°	36	42
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4459.1
2.5°	4419.1
5°	4321.2
7.5°	4183.2
10°	4019.7
12.5°	3867.2
15°	3732.9
17.5°	3605.8
20°	3493.3
22.5°	3380.6
25°	3239.1
27.5°	3035.7
30°	2748.8
32.5°	2298.5
35°	1655.8
37.5°	1129.3
40°	864.2
42.5°	744.5
45°	668.2
47.5°	602.8
50°	548.3
52.5°	501.1
55°	461.2
57.5°	414.0
60°	366.7
62.5°	319.6
65°	279.6
67.5°	239.7
70°	199.7
72.5°	167.0
75°	134.3
77.5°	105.4
80°	79.9
82.5°	58.1
85°	36.3
87.5°	18.2
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)