

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: P584414

Luminaire Tested: **HCC8S35D010BZ-HM82555835-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584414  
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: HCC8S35D010BZ-HM82555835-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

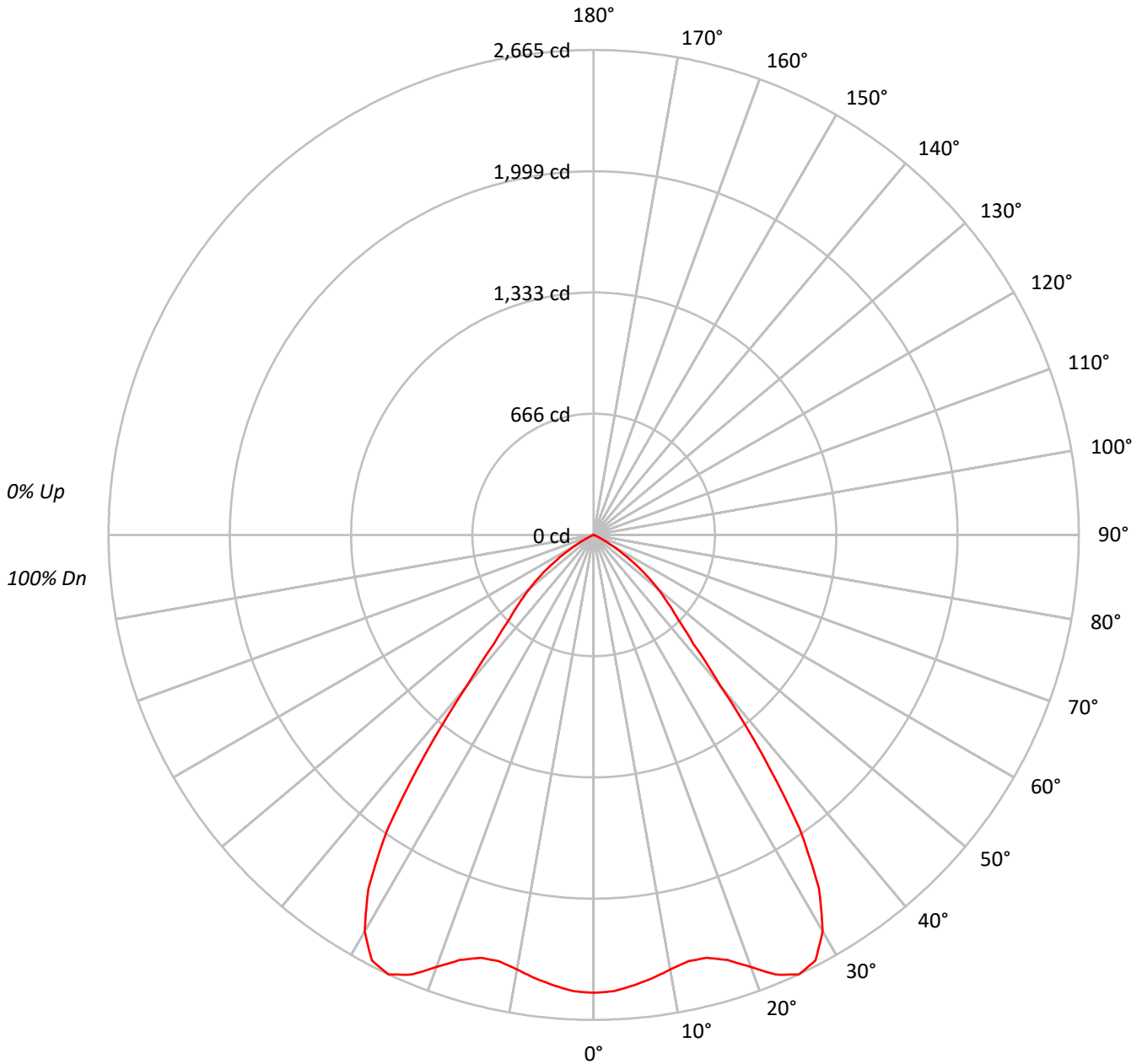
Lumens per Lamp: N/A  
Luminaire Lumens: 4140.3 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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			100	
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92	
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			83	
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75	
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			68	
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			62	
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			56	
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			51	
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			47	
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43	
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			40	

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

	0°
0°	77575
5°	76930
10°	75913
15°	76781
20°	82914
25°	90674
30°	89576
35°	74302
40°	43736
45°	28573
50°	22149
55°	14709
60°	7160
65°	2218
70°	748
75°	655
80°	497
85°	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.4	5.7
10°-20°	691.0	16.7
20°-30°	1208.1	29.2
30°-40°	1175.2	28.4
40°-50°	534.4	12.9
50°-60°	247.8	6.0
60°-70°	41.5	1.0
70°-80°	5.1	0.1
80°-90°	1.9	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°	2134.4	51.6
0°-40°	3309.6	79.9
0°-60°	4091.8	98.8
0°-90°	4140.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4140.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2516	
5°	2485	235
15°	2405	691
25°	2665	1208
35°	1974	1175
45°	655	534
55°	274	248
65°	30	42
75°	6	5
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2515.7
2.5°	2510.2
5°	2485.3
7.5°	2457.6
10°	2424.4
12.5°	2399.6
15°	2405.1
17.5°	2449.3
20°	2526.7
22.5°	2615.2
25°	2665.0
27.5°	2637.3
30°	2515.7
32.5°	2302.8
35°	1973.8
37.5°	1520.5
40°	1086.5
42.5°	810.0
45°	655.2
47.5°	552.9
50°	461.7
52.5°	367.7
55°	273.6
57.5°	188.0
60°	116.1
62.5°	63.6
65°	30.4
67.5°	13.8
70°	8.3
72.5°	5.5
75°	5.5
77.5°	2.8
80°	2.8
82.5°	2.8
85°	2.8
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)