

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: P584061

Luminaire Tested: **HCC8W20D010SL-HM80520930-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584061  
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: HCC8W20D010SL-HM80520930-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

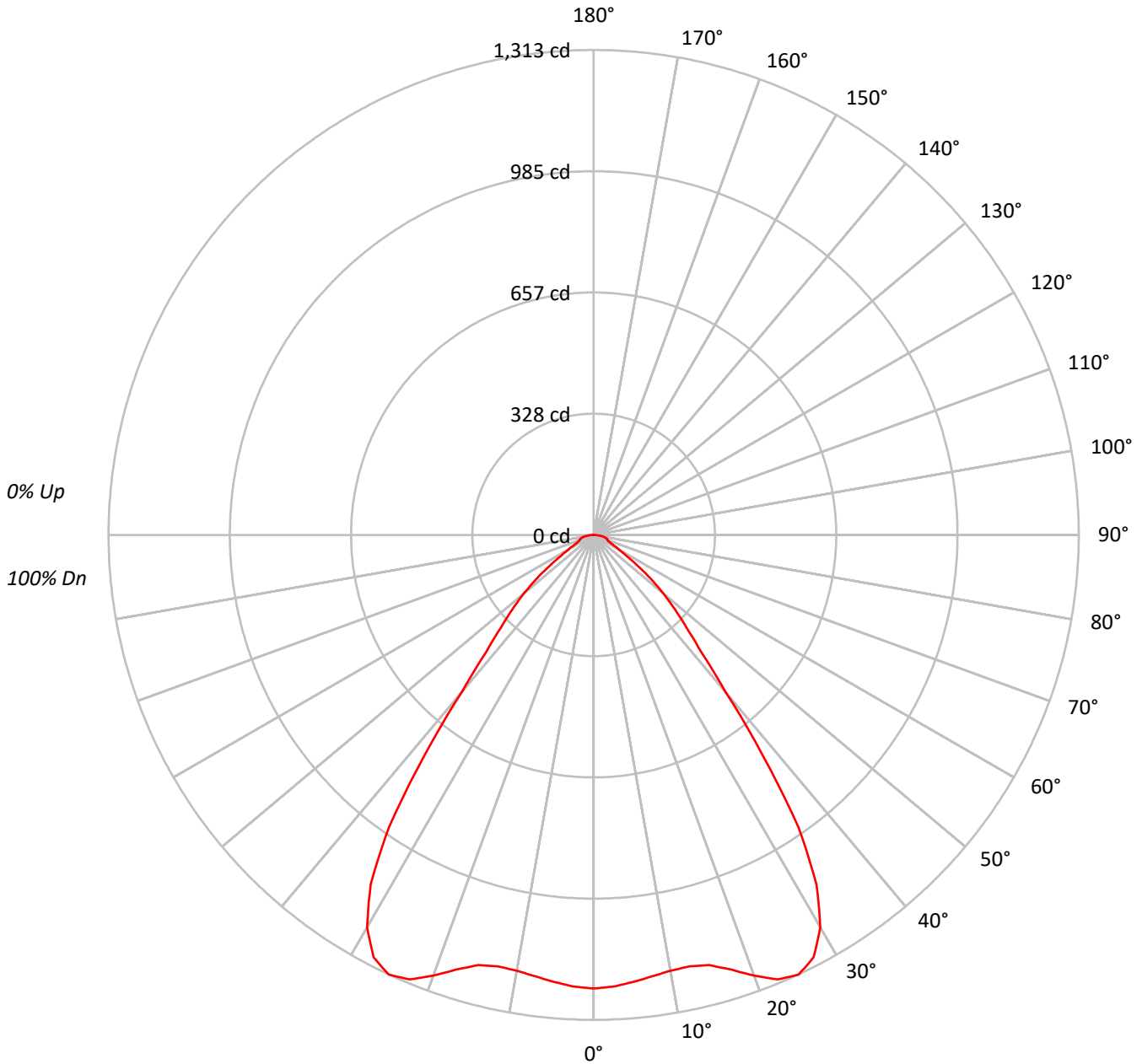
Lumens per Lamp: N/A  
Luminaire Lumens: 2155.9 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	37864
5°	37606
10°	37506
15°	38488
20°	41669
25°	44674
30°	43675
35°	36364
40°	22345
45°	15468
50°	11806
55°	7742
60°	4847
65°	3634
70°	3651
75°	4206
80°	4653
85°	4175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	5.4
10°-20°	346.1	16.1
20°-30°	595.8	27.6
30°-40°	577.2	26.8
40°-50°	284.3	13.2
50°-60°	134.2	6.2
60°-70°	52.9	2.5
70°-80°	36.4	1.7
80°-90°	13.5	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°	1057.4	49.0
0°-40°	1634.6	75.8
0°-60°	2053.1	95.2
0°-90°	2155.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2155.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1228	
5°	1215	115
15°	1206	346
25°	1313	596
35°	966	577
45°	355	284
55°	144	134
65°	50	53
75°	35	36
85°	12	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1227.9
2.5°	1224.0
5°	1214.9
7.5°	1205.6
10°	1197.8
12.5°	1196.5
15°	1205.6
17.5°	1233.2
20°	1269.8
22.5°	1302.6
25°	1313.0
27.5°	1289.4
30°	1226.6
32.5°	1123.1
35°	966.0
37.5°	750.1
40°	555.1
42.5°	430.7
45°	354.7
47.5°	298.5
50°	246.1
52.5°	193.7
55°	144.0
57.5°	104.7
60°	78.6
62.5°	61.6
65°	49.8
67.5°	43.1
70°	40.5
72.5°	37.9
75°	35.3
77.5°	31.4
80°	26.2
82.5°	19.6
85°	11.8
87.5°	5.2
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)