

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: P585226

Luminaire Tested: **HCC8W80D010BZ-HM86080835-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W80D010BZ-HM86080835-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

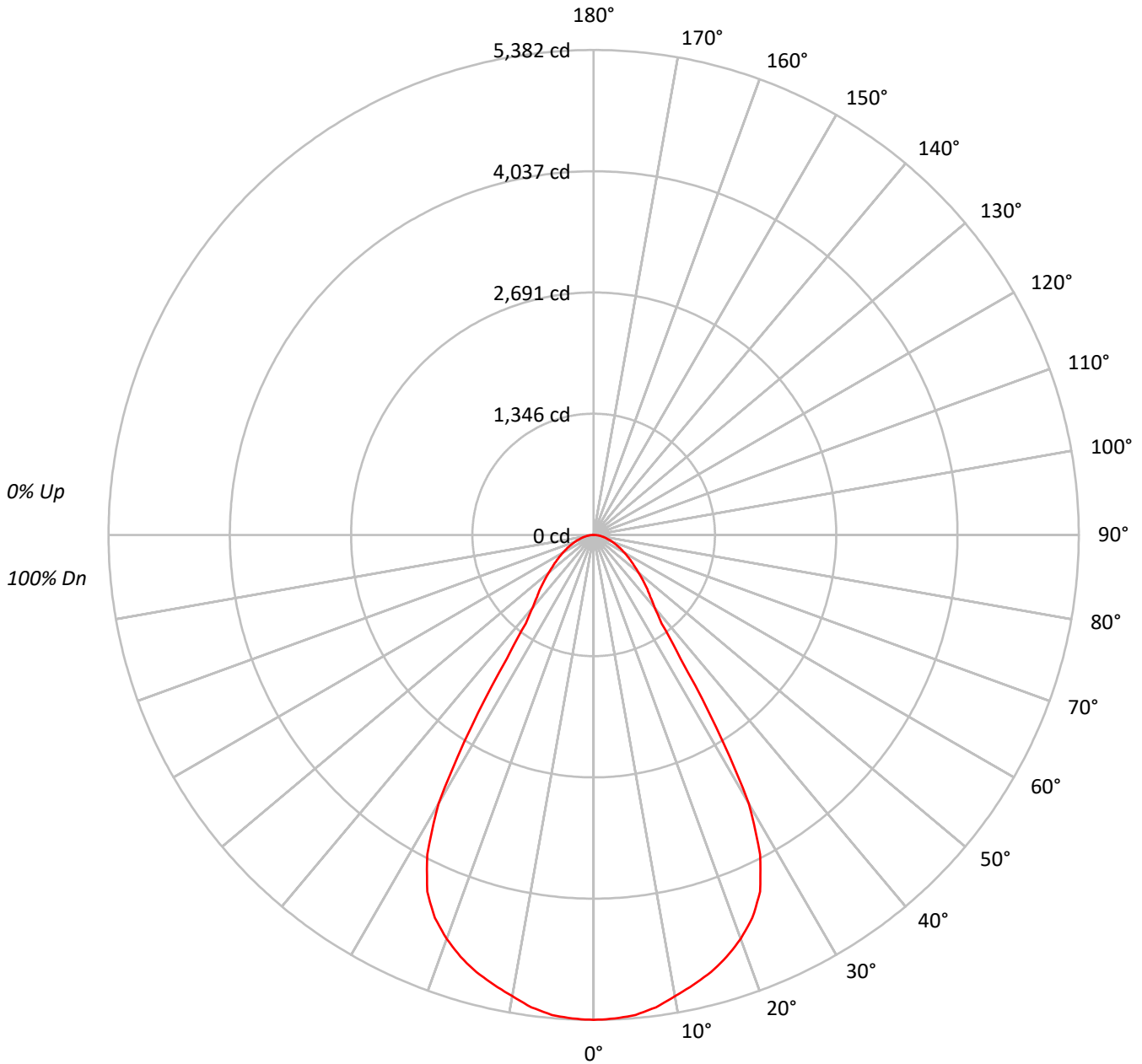
Lumens per Lamp: N/A  
Luminaire Lumens: 6658.5 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
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



TEST NUMBER: P585226  
CATALOG NUMBER: HCC8W80D010BZ-HM86080835-81NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P585226  
 CATALOG NUMBER: HCC8W80D010BZ-HM86080835-81NDW

**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	101	102	100	98	98	96	95	95	93	92	90		
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56		
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45		
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42		

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

	0°
0°	165964
5°	165521
10°	162763
15°	160387
20°	156539
25°	148597
30°	122565
35°	63107
40°	42247
45°	36230
50°	31259
55°	27273
60°	24237
65°	21773
70°	19736
75°	17776
80°	15893
85°	15851



TEST NUMBER: P585226  
 CATALOG NUMBER: HCC8W80D010BZ-HM86080835-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.6	7.6
10°-20°	1413.5	21.2
20°-30°	1958.5	29.4
30°-40°	1176.4	17.7
40°-50°	644.0	9.7
50°-60°	457.5	6.9
60°-70°	297.0	4.5
70°-80°	158.7	2.4
80°-90°	47.4	0.7
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°	3877.6	58.2
0°-40°	5053.9	75.9
0°-60°	6155.4	92.4
0°-90°	6658.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6658.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5382	
5°	5347	506
15°	5024	1413
25°	4367	1958
35°	1676	1176
45°	831	644
55°	507	457
65°	298	297
75°	149	159
85°	45	47
90°	0	



TEST NUMBER: P585226  
CATALOG NUMBER: HCC8W80D010BZ-HM86080835-81NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5382.1
2.5°	5372.3
5°	5347.3
7.5°	5287.6
10°	5198.1
12.5°	5113.5
15°	5024.0
17.5°	4909.6
20°	4770.3
22.5°	4601.2
25°	4367.4
27.5°	3999.3
30°	3442.2
32.5°	2522.0
35°	1676.4
37.5°	1238.6
40°	1049.5
42.5°	930.2
45°	830.8
47.5°	736.2
50°	651.6
52.5°	572.0
55°	507.3
57.5°	447.7
60°	393.0
62.5°	343.3
65°	298.4
67.5°	253.7
70°	218.9
72.5°	179.1
75°	149.2
77.5°	119.4
80°	89.5
82.5°	64.7
85°	44.8
87.5°	19.9
90°	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)