

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: P593908

Luminaire Tested: **HCC8W80D010BZ-HM86080950-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593908  
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: HCC8W80D010BZ-HM86080950-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

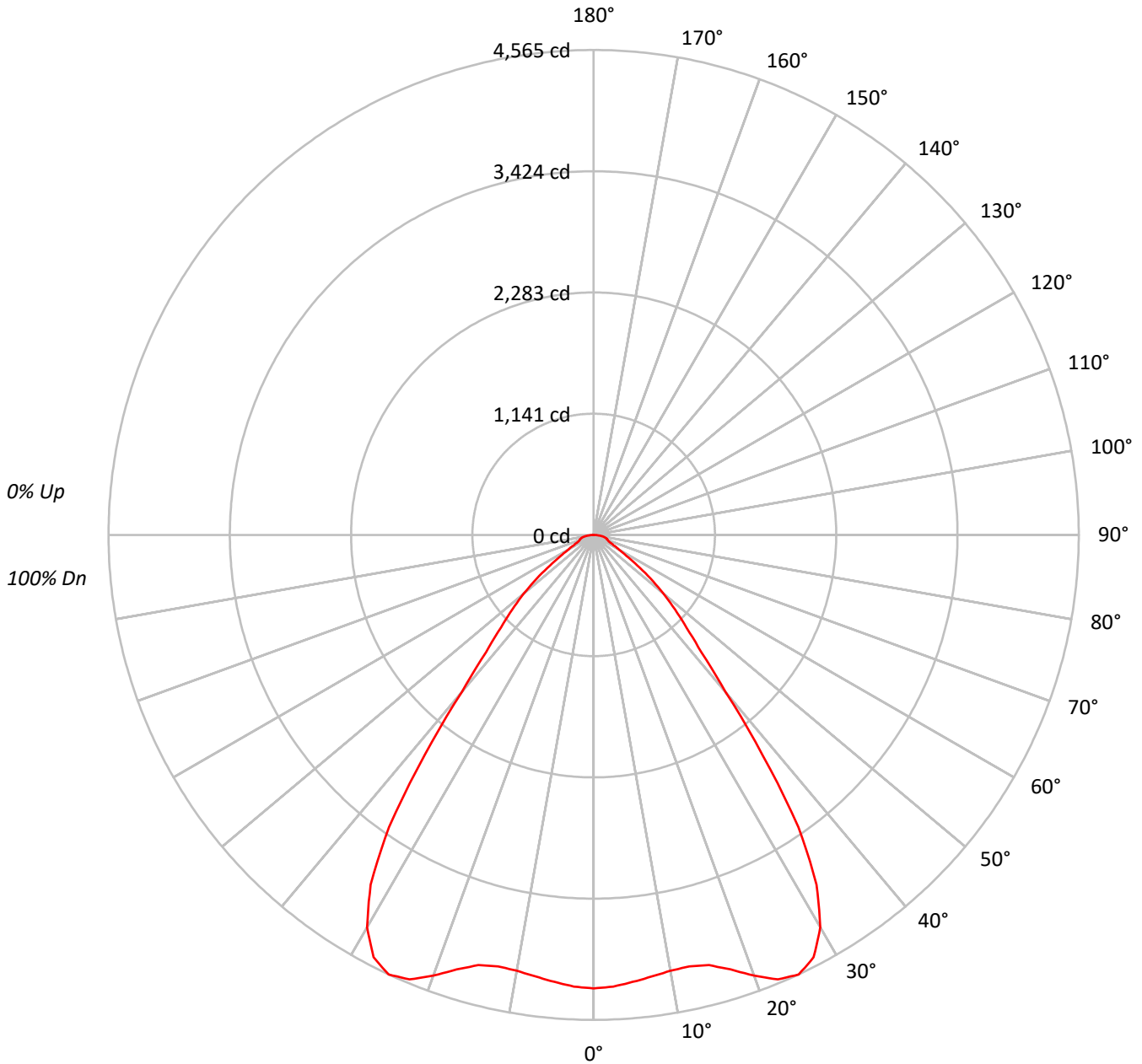
Lumens per Lamp: N/A  
Luminaire Lumens: 7495.9 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P593908  
CATALOG NUMBER: HCC8W80D010BZ-HM86080950-81WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P593908  
 CATALOG NUMBER: HCC8W80D010BZ-HM86080950-81WDWB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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°	131643
5°	130741
10°	130399
15°	133819
20°	144873
25°	155320
30°	151848
35°	126443
40°	77678
45°	53792
50°	41046
55°	26918
60°	16843
65°	12623
70°	12721
75°	14643
80°	16177
85°	14506



TEST NUMBER: P593908  
 CATALOG NUMBER: HCC8W80D010BZ-HM86080950-81WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.3	5.4
10°-20°	1203.3	16.1
20°-30°	2071.5	27.6
30°-40°	2007.0	26.8
40°-50°	988.6	13.2
50°-60°	466.5	6.2
60°-70°	183.8	2.5
70°-80°	126.8	1.7
80°-90°	47.1	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°	3676.2	49.0
0°-40°	5683.1	75.8
0°-60°	7138.2	95.2
0°-90°	7495.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7495.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4269	
5°	4224	401
15°	4192	1203
25°	4565	2072
35°	3359	2007
45°	1234	989
55°	501	466
65°	173	184
75°	123	127
85°	41	47
90°	0	



TEST NUMBER: P593908

CATALOG NUMBER: HCC8W80D010BZ-HM86080950-81WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4269.1
2.5°	4255.5
5°	4223.7
7.5°	4191.8
10°	4164.5
12.5°	4160.0
15°	4191.8
17.5°	4287.4
20°	4414.8
22.5°	4528.5
25°	4565.0
27.5°	4483.1
30°	4264.6
32.5°	3905.0
35°	3358.9
37.5°	2608.0
40°	1929.7
42.5°	1497.4
45°	1233.5
47.5°	1037.8
50°	855.6
52.5°	673.6
55°	500.7
57.5°	364.1
60°	273.1
62.5°	213.9
65°	173.0
67.5°	150.2
70°	141.1
72.5°	132.0
75°	122.9
77.5°	109.3
80°	91.1
82.5°	68.2
85°	41.0
87.5°	18.2
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)