

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: P593894

Luminaire Tested: **HCC8S80D010MB-HM86080850-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S80D010MB-HM86080850-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

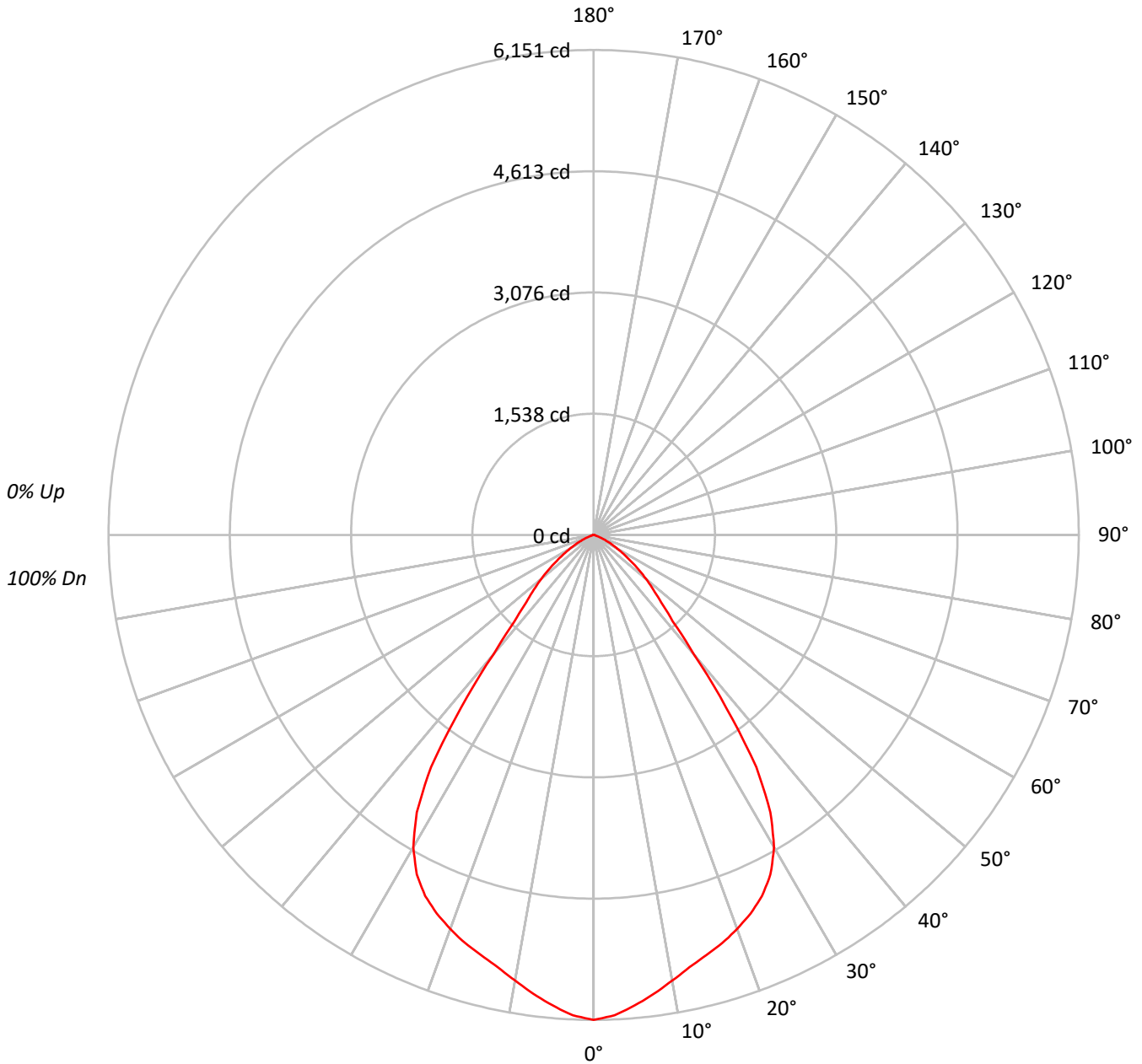
Lumens per Lamp: N/A  
Luminaire Lumens: 8285.3 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P593894  
CATALOG NUMBER: HCC8S80D010MB-HM86080850-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P593894  
 CATALOG NUMBER: HCC8S80D010MB-HM86080850-81WDH

**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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

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

	0°
0°	189683
5°	185409
10°	179725
15°	176090
20°	174509
25°	171900
30°	162833
35°	135289
40°	79671
45°	52697
50°	41477
55°	30520
60°	21197
65°	12915
70°	5635
75°	2478
80°	1865
85°	0



TEST NUMBER: P593894  
 CATALOG NUMBER: HCC8S80D010MB-HM86080850-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.1	6.8
10°-20°	1559.4	18.8
20°-30°	2310.4	27.9
30°-40°	2134.9	25.8
40°-50°	984.4	11.9
50°-60°	517.7	6.2
60°-70°	182.9	2.2
70°-80°	28.7	0.3
80°-90°	2.8	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°	4433.8	53.5
0°-40°	6568.7	79.3
0°-60°	8070.8	97.4
0°-90°	8285.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8285.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6151	
5°	5990	564
15°	5516	1559
25°	5052	2310
35°	3594	2135
45°	1208	984
55°	568	518
65°	177	183
75°	21	29
85°	0	3
90°	0	



TEST NUMBER: P593894

CATALOG NUMBER: HCC8S80D010MB-HM86080850-81WDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6151.3
2.5°	6099.2
5°	5989.8
7.5°	5870.1
10°	5739.8
12.5°	5614.8
15°	5515.9
17.5°	5427.3
20°	5317.9
22.5°	5198.2
25°	5052.3
27.5°	4854.3
30°	4573.1
32.5°	4172.1
35°	3593.9
37.5°	2760.5
40°	1979.2
42.5°	1484.5
45°	1208.4
47.5°	1026.1
50°	864.6
52.5°	708.4
55°	567.7
57.5°	447.9
60°	343.7
62.5°	260.4
65°	177.0
67.5°	104.2
70°	62.5
72.5°	36.5
75°	20.8
77.5°	15.6
80°	10.5
82.5°	5.2
85°	0.0
87.5°	0.0
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)