

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: P585257

Luminaire Tested: **HCC8S80D010MW-HM86080927-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S80D010MW-HM86080927-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

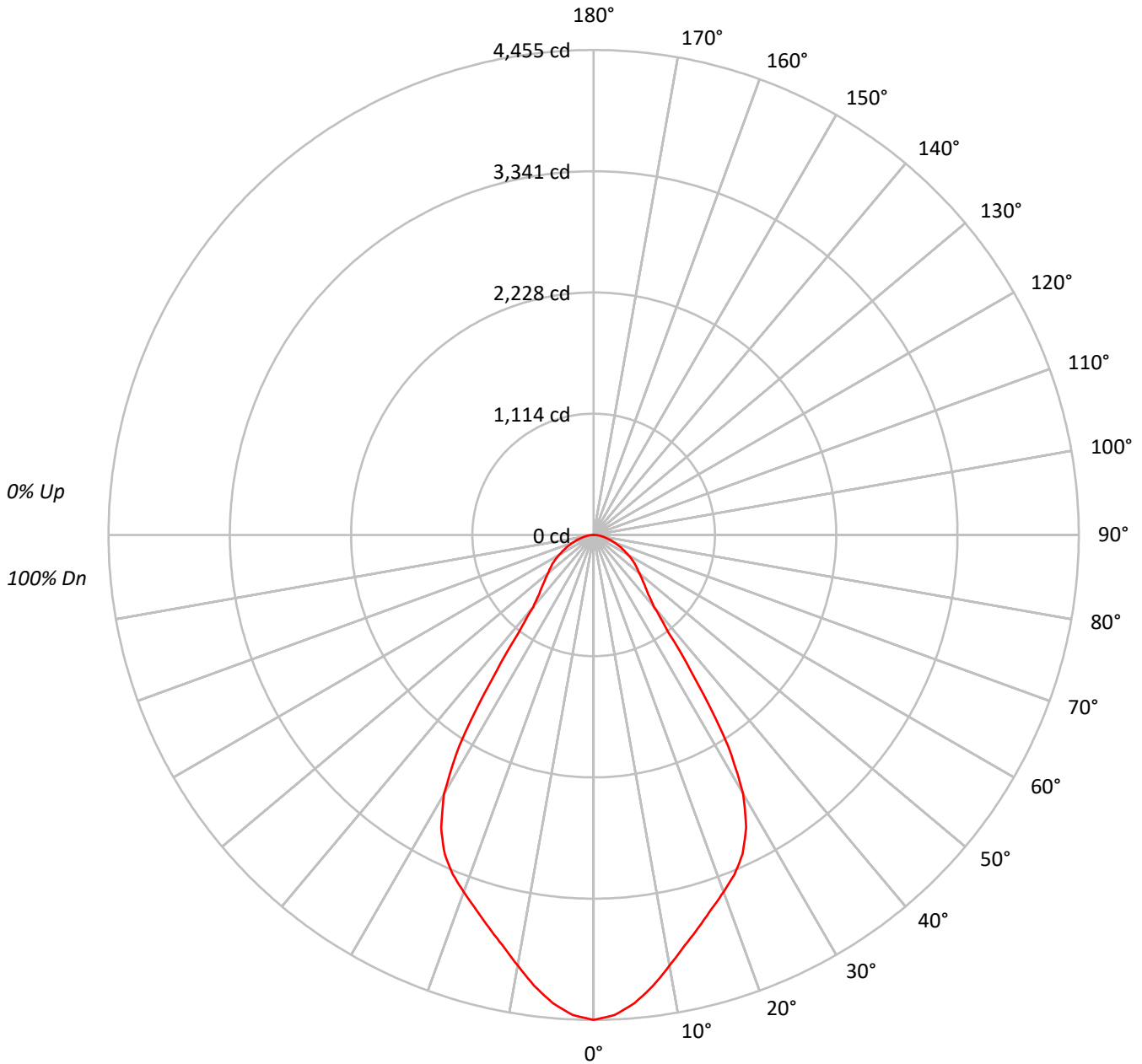
Lumens per Lamp: N/A  
Luminaire Lumens: 5372.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P585257  
CATALOG NUMBER: HCC8S80D010MW-HM86080927-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P585257

CATALOG NUMBER: HCC8S80D010MW-HM86080927-81MDW

**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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54	54	54	54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46	46	46	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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

	0°
0°	137363
5°	133623
10°	125740
15°	119048
20°	114516
25°	110092
30°	97776
35°	62267
40°	34751
45°	29109
50°	26279
55°	24768
60°	22591
65°	20379
70°	17987
75°	15989
80°	14171
85°	12843



TEST NUMBER: P585257  
 CATALOG NUMBER: HCC8S80D010MW-HM86080927-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.4	7.5
10°-20°	1051.7	19.6
20°-30°	1467.2	27.3
30°-40°	1055.7	19.7
40°-50°	523.2	9.7
50°-60°	409.3	7.6
60°-70°	277.1	5.2
70°-80°	143.9	2.7
80°-90°	41.5	0.8
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°	2921.3	54.4
0°-40°	3977.0	74.0
0°-60°	4909.5	91.4
0°-90°	5372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5372.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4455	
5°	4317	402
15°	3729	1052
25°	3236	1467
35°	1654	1056
45°	668	523
55°	461	409
65°	279	277
75°	134	144
85°	36	41
90°	0	



TEST NUMBER: P585257  
CATALOG NUMBER: HCC8S80D010MW-HM86080927-81MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4454.6
2.5°	4414.8
5°	4316.8
7.5°	4178.9
10°	4015.7
12.5°	3863.3
15°	3729.1
17.5°	3602.2
20°	3489.7
22.5°	3377.2
25°	3235.7
27.5°	3032.7
30°	2746.0
32.5°	2296.2
35°	1654.1
37.5°	1128.1
40°	863.3
42.5°	743.6
45°	667.5
47.5°	602.2
50°	547.8
52.5°	500.6
55°	460.7
57.5°	413.5
60°	366.3
62.5°	319.2
65°	279.3
67.5°	239.5
70°	199.5
72.5°	166.8
75°	134.2
77.5°	105.2
80°	79.8
82.5°	58.0
85°	36.3
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)