

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: P584611

Luminaire Tested: **HCC8S40D010MB-HM82555935-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584611  
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: HCC8S40D010MB-HM82555935-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

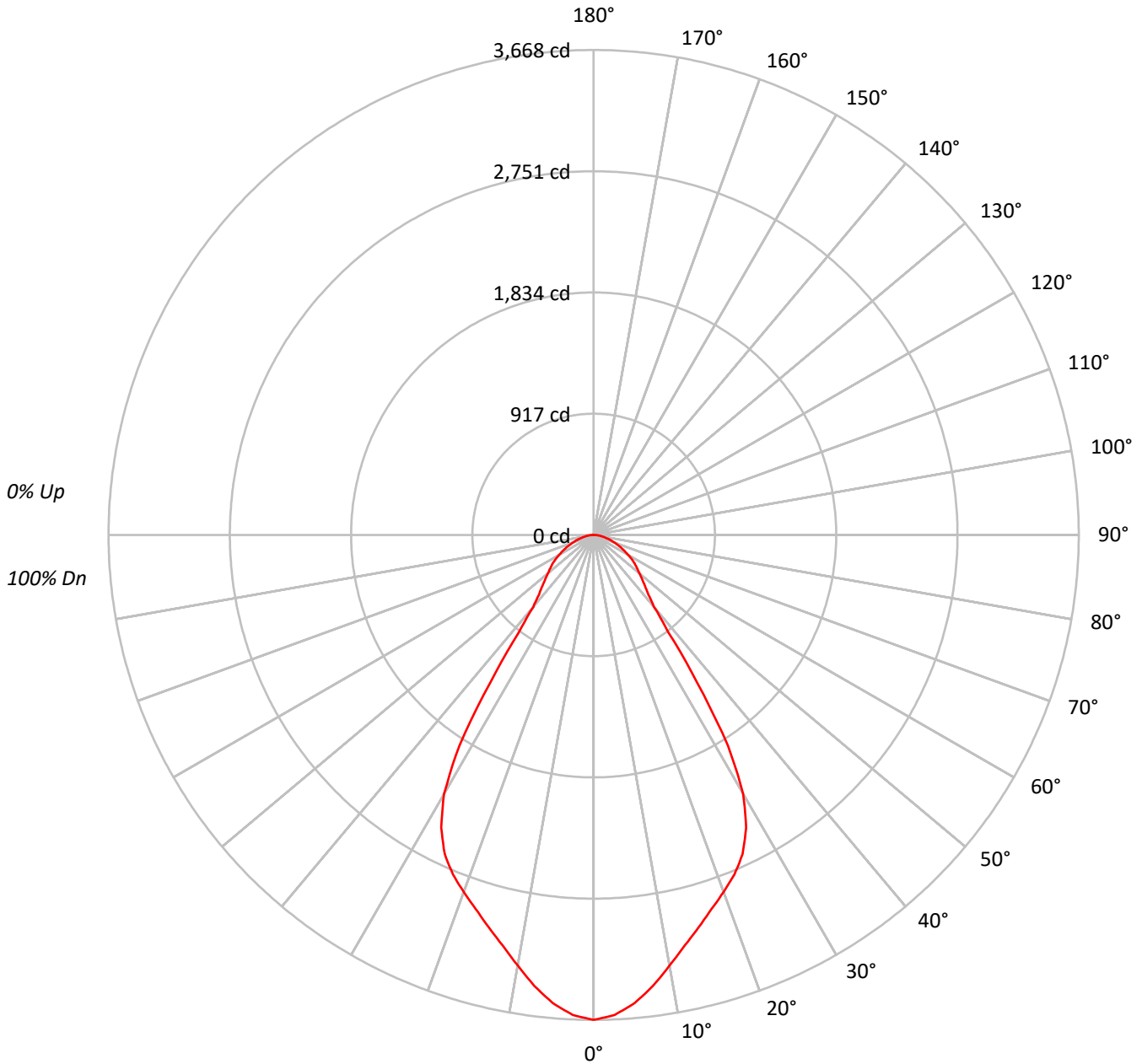
Lumens per Lamp: N/A  
Luminaire Lumens: 4422.8 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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: P584611  
CATALOG NUMBER: HCC8S40D010MB-HM82555935-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584611  
 CATALOG NUMBER: HCC8S40D010MB-HM82555935-81MDW

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

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

	0°
0°	113092
5°	110008
10°	103521
15°	98010
20°	94278
25°	90637
30°	80500
35°	51264
40°	28613
45°	23963
50°	21636
55°	20392
60°	18607
65°	16775
70°	14804
75°	13177
80°	11667
85°	10579



TEST NUMBER: P584611  
 CATALOG NUMBER: HCC8S40D010MB-HM82555935-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.3	7.5
10°-20°	865.8	19.6
20°-30°	1207.9	27.3
30°-40°	869.2	19.7
40°-50°	430.8	9.7
50°-60°	337.0	7.6
60°-70°	228.2	5.2
70°-80°	118.5	2.7
80°-90°	34.1	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°	2405.1	54.4
0°-40°	3274.2	74.0
0°-60°	4042.0	91.4
0°-90°	4422.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4422.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3668	
5°	3554	331
15°	3070	866
25°	2664	1208
35°	1362	869
45°	550	431
55°	379	337
65°	230	228
75°	111	118
85°	30	34
90°	0	



TEST NUMBER: P584611  
CATALOG NUMBER: HCC8S40D010MB-HM82555935-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3667.5
2.5°	3634.6
5°	3553.9
7.5°	3440.4
10°	3306.1
12.5°	3180.6
15°	3070.1
17.5°	2965.6
20°	2873.0
22.5°	2780.4
25°	2663.9
27.5°	2496.7
30°	2260.8
32.5°	1890.4
35°	1361.8
37.5°	928.8
40°	710.8
42.5°	612.3
45°	549.5
47.5°	495.8
50°	451.0
52.5°	412.1
55°	379.3
57.5°	340.5
60°	301.7
62.5°	262.9
65°	229.9
67.5°	197.1
70°	164.2
72.5°	137.3
75°	110.6
77.5°	86.6
80°	65.7
82.5°	47.8
85°	29.9
87.5°	14.9
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)