

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: P584547

Luminaire Tested: **HCC8W40D010MB-HM82555835-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W40D010MB-HM82555835-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

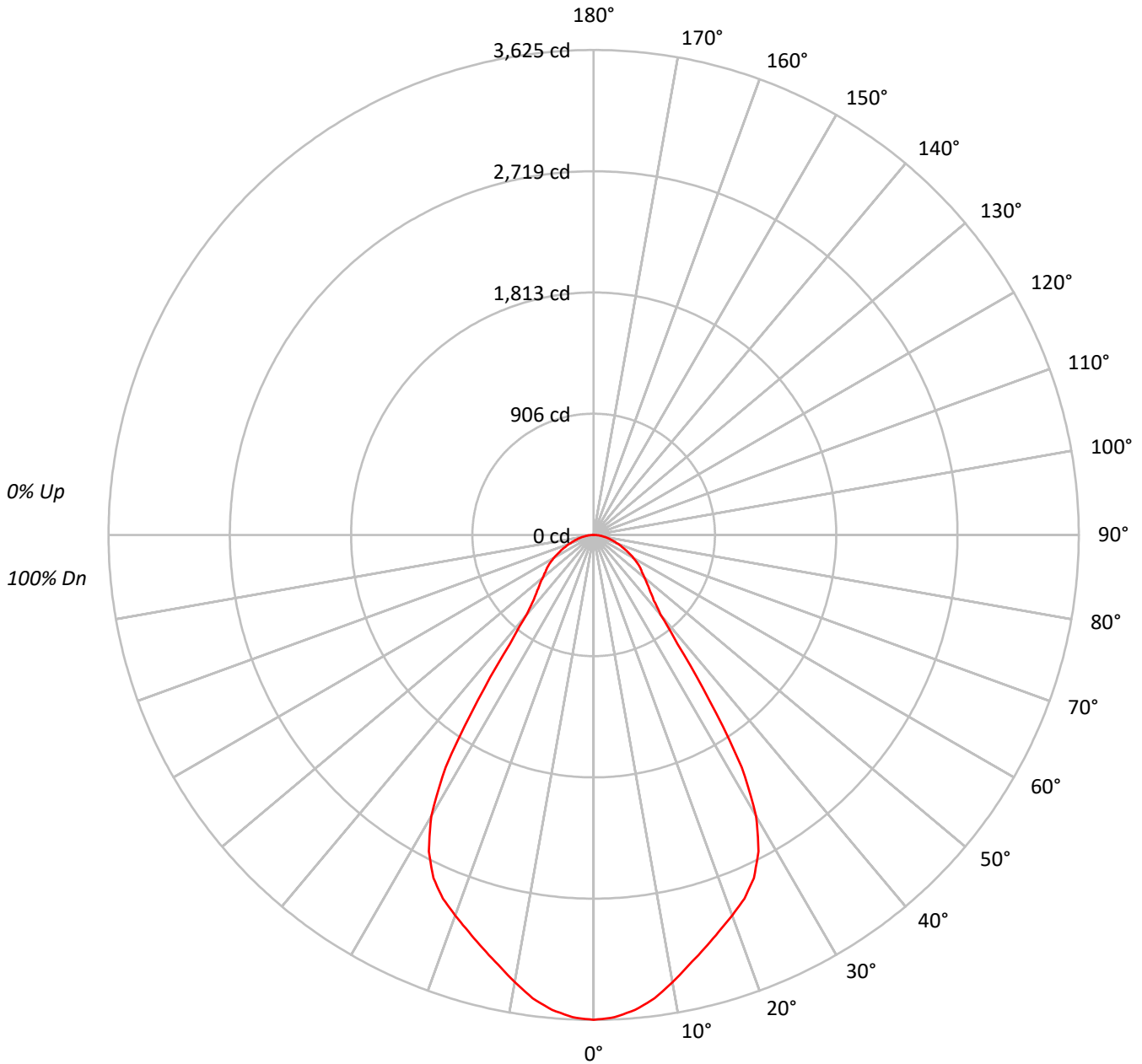
Lumens per Lamp: N/A  
Luminaire Lumens: 4761.9 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584547  
CATALOG NUMBER: HCC8W40D010MB-HM82555835-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584547  
 CATALOG NUMBER: HCC8W40D010MB-HM82555835-81PSMDW

**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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

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

	0°
0°	111772
5°	110317
10°	106279
15°	102125
20°	99302
25°	96312
30°	86425
35°	56655
40°	31322
45°	26113
50°	23809
55°	22725
60°	21129
65°	19153
70°	17329
75°	15643
80°	14224
85°	13586



TEST NUMBER: P584547  
 CATALOG NUMBER: HCC8W40D010MB-HM82555835-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.9	7.0
10°-20°	902.5	19.0
20°-30°	1284.4	27.0
30°-40°	950.6	20.0
40°-50°	470.8	9.9
50°-60°	375.8	7.9
60°-70°	260.9	5.5
70°-80°	140.6	3.0
80°-90°	41.4	0.9
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°	2521.8	53.0
0°-40°	3472.4	72.9
0°-60°	4319.0	90.7
0°-90°	4761.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3625	
5°	3564	335
15°	3199	903
25°	2831	1284
35°	1505	951
45°	599	471
55°	423	376
65°	262	261
75°	131	141
85°	38	41
90°	0	



TEST NUMBER: P584547  
CATALOG NUMBER: HCC8W40D010MB-HM82555835-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3624.7
2.5°	3608.8
5°	3563.9
7.5°	3493.5
10°	3394.2
12.5°	3291.8
15°	3199.0
17.5°	3109.2
20°	3026.1
22.5°	2942.8
25°	2830.7
27.5°	2667.4
30°	2427.2
32.5°	2058.9
35°	1505.0
37.5°	1027.9
40°	778.1
42.5°	666.0
45°	598.8
47.5°	544.3
50°	496.3
52.5°	454.7
55°	422.7
57.5°	384.3
60°	342.6
62.5°	301.0
65°	262.5
67.5°	224.2
70°	192.2
72.5°	160.1
75°	131.3
77.5°	105.7
80°	80.1
82.5°	57.6
85°	38.4
87.5°	16.1
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)