

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: P584525

Luminaire Tested: **HCC8W40D010SL-HM82555830-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W40D010SL-HM82555830-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

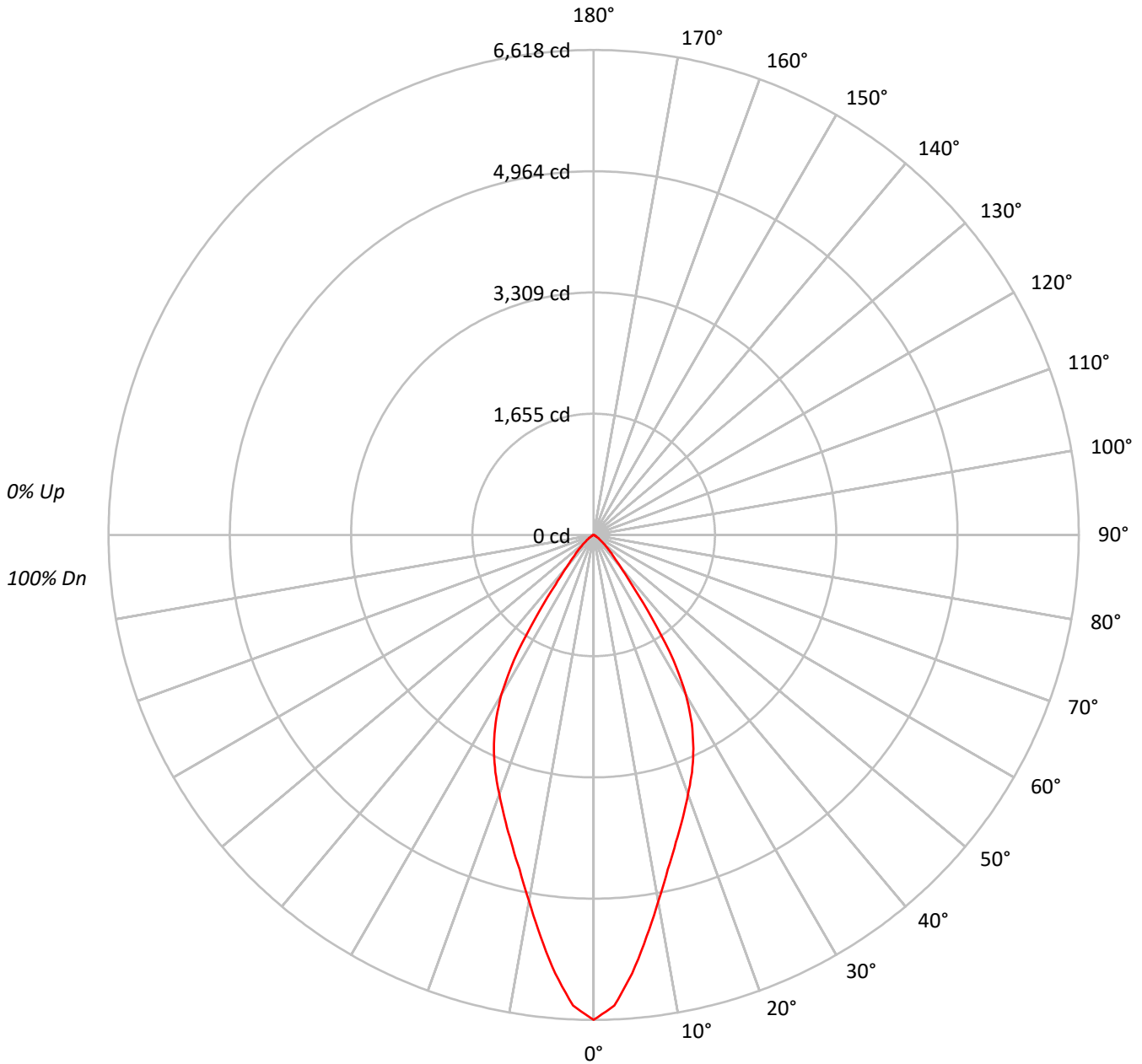
Lumens per Lamp: N/A  
Luminaire Lumens: 4462.1 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584525  
CATALOG NUMBER: HCC8W40D010SL-HM82555830-81MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P584525

CATALOG NUMBER: HCC8W40D010SL-HM82555830-81MDH

**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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

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

	0°
0°	204059
5°	185954
10°	158883
15°	138557
20°	123497
25°	109547
30°	89693
35°	51509
40°	22860
45°	13301
50°	7680
55°	4382
60°	2424
65°	1547
70°	1091
75°	727
80°	533
85°	1061



TEST NUMBER: P584525  
 CATALOG NUMBER: HCC8W40D010SL-HM82555830-81MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.8	12.2
10°-20°	1220.0	27.3
20°-30°	1460.4	32.7
30°-40°	883.5	19.8
40°-50°	247.6	5.5
50°-60°	76.9	1.7
60°-70°	21.9	0.5
70°-80°	6.0	0.1
80°-90°	2.0	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°	3224.2	72.3
0°-40°	4107.7	92.1
0°-60°	4432.1	99.3
0°-90°	4462.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4462.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6618	
5°	6007	544
15°	4340	1220
25°	3220	1460
35°	1368	883
45°	305	248
55°	82	77
65°	21	22
75°	6	6
85°	3	2
90°	0	



TEST NUMBER: P584525  
CATALOG NUMBER: HCC8W40D010SL-HM82555830-81MDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6617.5
2.5°	6430.3
5°	6007.4
7.5°	5530.2
10°	5074.2
12.5°	4675.5
15°	4340.2
17.5°	4044.2
20°	3763.4
22.5°	3503.6
25°	3219.7
27.5°	2899.6
30°	2519.0
32.5°	2026.7
35°	1368.3
37.5°	851.7
40°	567.9
42.5°	407.7
45°	305.0
47.5°	223.5
50°	160.1
52.5°	111.7
55°	81.5
57.5°	54.4
60°	39.3
62.5°	27.1
65°	21.2
67.5°	15.1
70°	12.1
72.5°	6.1
75°	6.1
77.5°	3.0
80°	3.0
82.5°	3.0
85°	3.0
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)