

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: P585038

Luminaire Tested: **HCC8S55D010MW-HM82555940-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S55D010MW-HM82555940-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

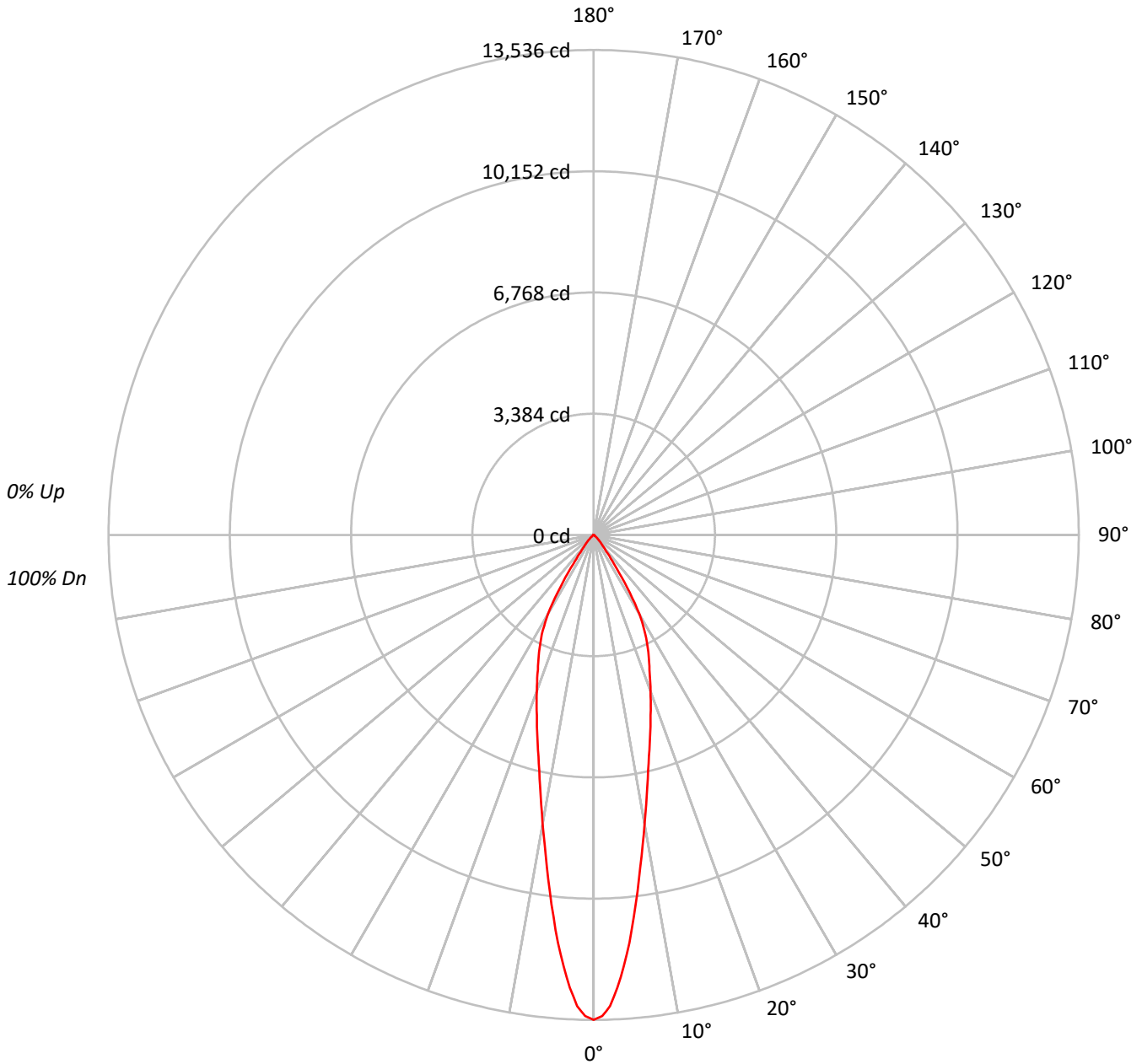
Lumens per Lamp: N/A  
Luminaire Lumens: 5245.8 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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: P585038  
CATALOG NUMBER: HCC8S55D010MW-HM82555940-81NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P585038

CATALOG NUMBER: HCC8S55D010MW-HM82555940-81NDH

**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
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			59

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

	0°
0°	417413
5°	353632
10°	256580
15°	192684
20°	152030
25°	122633
30°	90872
35°	36816
40°	15526
45°	8325
50°	3737
55°	1882
60°	1203
65°	854
70°	694
75°	465
80°	693
85°	1380



TEST NUMBER: P585038  
 CATALOG NUMBER: HCC8S55D010MW-HM82555940-81NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	980.9	18.7
10°-20°	1695.2	32.3
20°-30°	1639.0	31.2
30°-40°	719.8	13.7
40°-50°	155.6	3.0
50°-60°	35.0	0.7
60°-70°	12.0	0.2
70°-80°	4.6	0.1
80°-90°	3.7	0.1
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°	4315.1	82.3
0°-40°	5034.9	96.0
0°-60°	5225.5	99.6
0°-90°	5245.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5245.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13536	
5°	11424	981
15°	6036	1695
25°	3604	1639
35°	978	720
45°	191	156
55°	35	35
65°	12	12
75°	4	5
85°	4	4
90°	0	



TEST NUMBER: P585038

CATALOG NUMBER: HCC8S55D010MW-HM82555940-81NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13536.4
1°	13435.0
2°	13158.4
3°	12659.6
4°	12063.5
5°	11424.4
6°	10727.0
7°	10025.6
8°	9367.1
9°	8755.4
10°	8194.3
11°	7664.4
12°	7189.0
13°	6756.5
14°	6374.6
15°	6035.7
17.5°	5275.9
20°	4632.9
22.5°	4067.9
25°	3604.3
27.5°	3132.8
30°	2552.1
32.5°	1734.0
35°	978.0
37.5°	576.6
40°	385.7
42.5°	272.7
45°	190.9
47.5°	124.7
50°	77.9
52.5°	46.8
55°	35.0
57.5°	27.3
60°	19.5
62.5°	15.6
65°	11.7
67.5°	7.7
70°	7.7
72.5°	3.9
75°	3.9
77.5°	3.9
80°	3.9
82.5°	3.9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



TEST NUMBER: P585038  
CATALOG NUMBER: HCC8S55D010MW-HM82555940-81NDH

**CANDELA DISTRIBUTION (continued):**

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



85°	3.9
87.5°	3.9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)