

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: P584221

Luminaire Tested: **HCC8S25D010MW-HM82555940-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S25D010MW-HM82555940-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

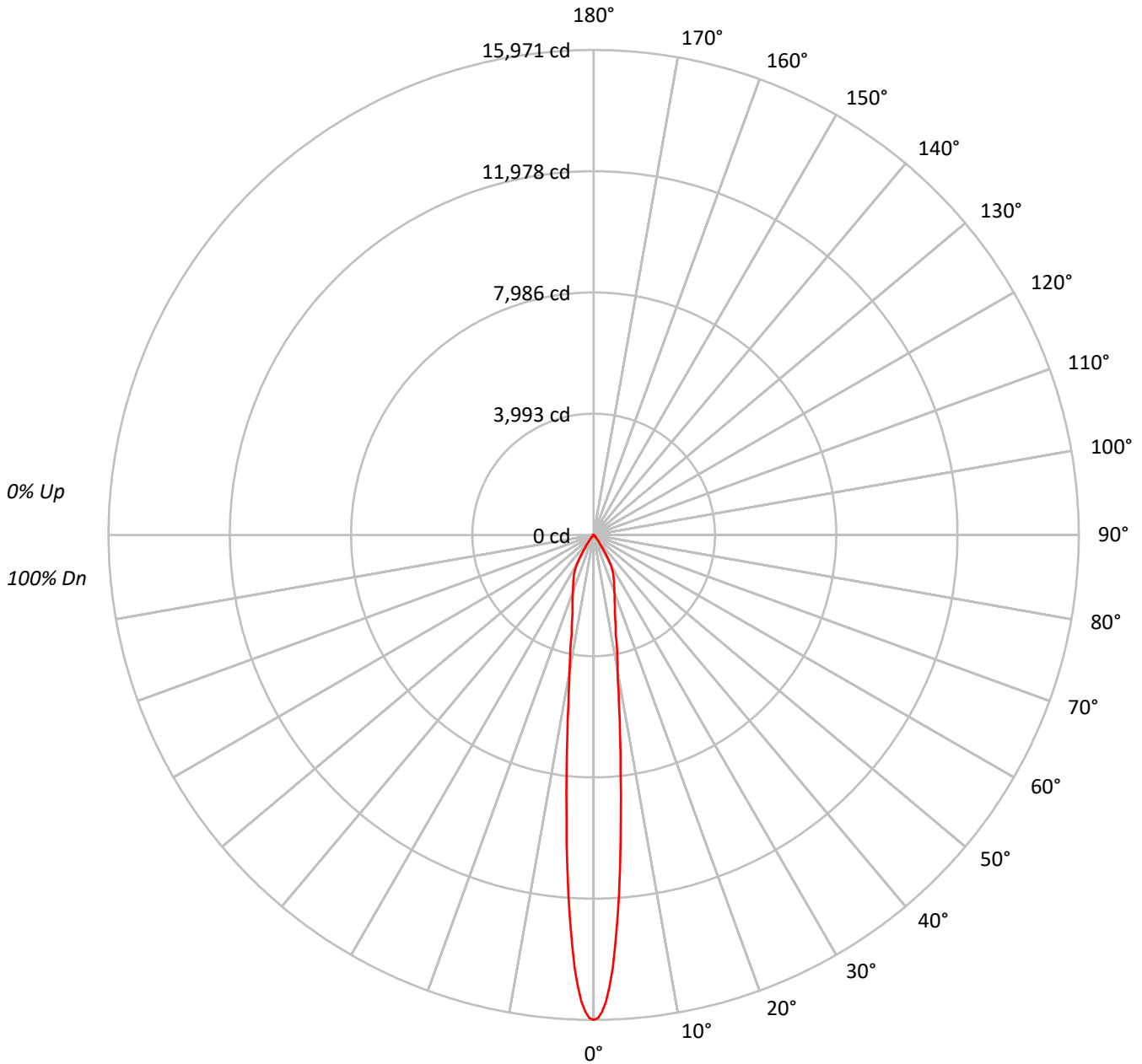
Lumens per Lamp: N/A  
Luminaire Lumens: 2616.3 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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: P584221  
CATALOG NUMBER: HCC8S25D010MW-HM82555940-81NDC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584221

CATALOG NUMBER: HCC8S25D010MW-HM82555940-81NDC

**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	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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	94	93	91	91	96		
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	89	87	87	87	91		
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	85	83	83	83	87		
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	81	80	80	80	83		
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	77	75	73	73	76		
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	74	72	71	71	74		
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	71	69	68	68	71		
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	69	68	67	67	71		
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	67	66	66	66	68		
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	65	64	63	63	66		

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

	0°
0°	492478
5°	315887
10°	142695
15°	86099
20°	65611
25°	52986
30°	38826
35°	14056
40°	5245
45°	2381
50°	758
55°	188
60°	105
65°	124
70°	0
75°	0
80°	302
85°	601



TEST NUMBER: P584221  
 CATALOG NUMBER: HCC8S25D010MW-HM82555940-81NDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	778.3	29.7
10°-20°	790.5	30.2
20°-30°	707.7	27.0
30°-40°	285.1	10.9
40°-50°	46.7	1.8
50°-60°	4.2	0.2
60°-70°	1.5	0.1
70°-80°	1.1	0.0
80°-90°	1.6	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°	2276.5	87.0
0°-40°	2561.6	97.9
0°-60°	2612.5	99.9
0°-90°	2616.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15971	
5°	10205	778
15°	2697	791
25°	1557	708
35°	373	285
45°	55	47
55°	4	4
65°	2	1
75°	0	1
85°	2	2
90°	0	



TEST NUMBER: P584221  
CATALOG NUMBER: HCC8S25D010MW-HM82555940-81NDC

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	15970.7
0.5°	15921.4
1°	15715.3
1.5°	15384.1
2°	14882.0
2.5°	14288.4
3°	13545.0
3.5°	12729.4
4°	11922.6
4.5°	11018.9
5°	10205.0
5.5°	9318.8
6°	8600.1
6.5°	7851.4
7°	7263.1
7.5°	6641.3
8°	6140.9
8.5°	5638.9
9°	5261.9
9.5°	4846.1
10°	4557.2
12.5°	3361.2
15°	2697.0
17.5°	2304.1
20°	1999.4
22.5°	1756.3
25°	1557.3
27.5°	1358.2
30°	1090.4
32.5°	701.2
35°	373.4
37.5°	206.1
40°	130.3
42.5°	86.3
45°	54.6
47.5°	33.5
50°	15.8
52.5°	5.2
55°	3.5
57.5°	1.7
60°	1.7
62.5°	1.7
65°	1.7



TEST NUMBER: P584221  
CATALOG NUMBER: HCC8S25D010MW-HM82555940-81NDC

**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	1.7
80°	1.7
82.5°	1.7
85°	1.7
87.5°	1.7
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



67.5°		1.7
70°		0.0

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

Scaled Data Report



(END OF REPORT)