

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: P584683

Luminaire Tested: **HCC8S45D010BZ-HM82555835-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584683  
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: HCC8S45D010BZ-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**

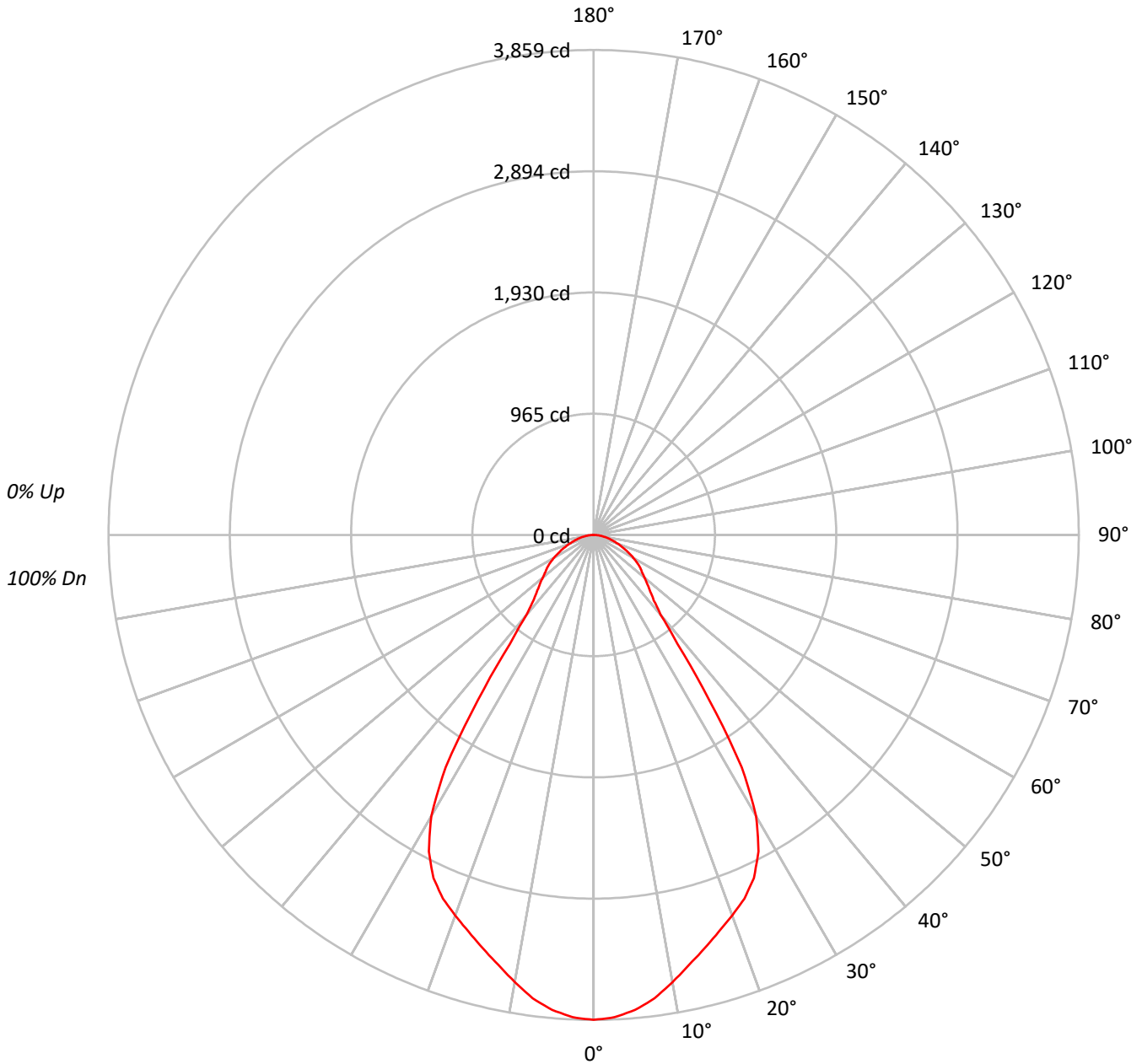
Lumens per Lamp: N/A  
Luminaire Lumens: 5069.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P584683  
CATALOG NUMBER: HCC8S45D010BZ-HM82555835-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584683  
 CATALOG NUMBER: HCC8S45D010BZ-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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76		82	78	74		80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	80	69	62	57	78	68	61	56	67	61	56		65	60	56		64	59	55	53
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41		50	45	41		49	44	41	39

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

	0°
0°	118985
5°	117434
10°	113137
15°	108708
20°	105705
25°	102525
30°	92001
35°	60310
40°	33342
45°	27796
50°	25344
55°	24193
60°	22492
65°	20394
70°	18447
75°	16644
80°	15130
85°	14471



TEST NUMBER: P584683  
 CATALOG NUMBER: HCC8S45D010BZ-HM82555835-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.5	7.0
10°-20°	960.7	19.0
20°-30°	1367.3	27.0
30°-40°	1012.0	20.0
40°-50°	501.2	9.9
50°-60°	400.0	7.9
60°-70°	277.7	5.5
70°-80°	149.6	3.0
80°-90°	44.0	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°	2684.5	53.0
0°-40°	3696.4	72.9
0°-60°	4597.6	90.7
0°-90°	5069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3859	
5°	3794	356
15°	3405	961
25°	3013	1367
35°	1602	1012
45°	637	501
55°	450	400
65°	280	278
75°	140	150
85°	41	44
90°	0	



TEST NUMBER: P584683  
CATALOG NUMBER: HCC8S45D010BZ-HM82555835-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3858.6
2.5°	3841.6
5°	3793.8
7.5°	3718.9
10°	3613.2
12.5°	3504.1
15°	3405.2
17.5°	3309.9
20°	3221.2
22.5°	3132.6
25°	3013.3
27.5°	2839.5
30°	2583.8
32.5°	2191.8
35°	1602.1
37.5°	1094.2
40°	828.3
42.5°	709.0
45°	637.4
47.5°	579.5
50°	528.3
52.5°	484.0
55°	450.0
57.5°	409.0
60°	364.7
62.5°	320.5
65°	279.5
67.5°	238.6
70°	204.6
72.5°	170.4
75°	139.7
77.5°	112.5
80°	85.2
82.5°	61.3
85°	40.9
87.5°	17.0
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)