

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: P584598

Luminaire Tested: **HCC8S40D010BZ-HM82555930-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584598  
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: HCC8S40D010BZ-HM82555930-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

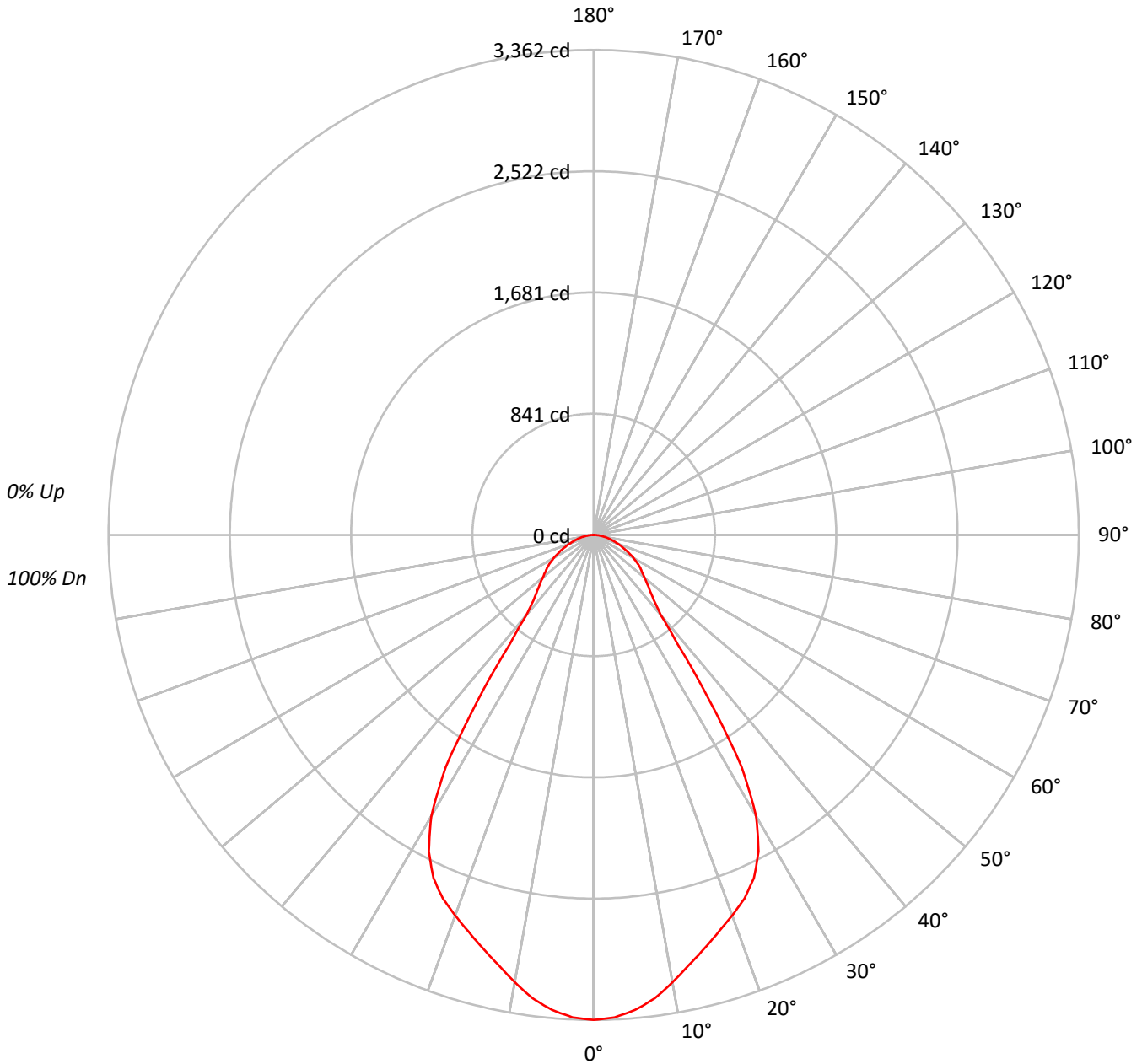
Lumens per Lamp: N/A  
Luminaire Lumens: 4416.9 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584598  
CATALOG NUMBER: HCC8S40D010BZ-HM82555930-81PSMDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584598

CATALOG NUMBER: HCC8S40D010BZ-HM82555930-81PSMDW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	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°	103678
5°	102328
10°	98583
15°	94722
20°	92109
25°	89334
30°	80165
35°	52551
40°	29051
45°	24221
50°	22087
55°	21080
60°	19600
65°	17774
70°	16075
75°	14500
80°	13194
85°	12631



TEST NUMBER: P584598  
 CATALOG NUMBER: HCC8S40D010BZ-HM82555930-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.6	7.0
10°-20°	837.1	19.0
20°-30°	1191.4	27.0
30°-40°	881.8	20.0
40°-50°	436.7	9.9
50°-60°	348.6	7.9
60°-70°	242.0	5.5
70°-80°	130.4	3.0
80°-90°	38.4	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°	2339.1	53.0
0°-40°	3220.9	72.9
0°-60°	4006.1	90.7
0°-90°	4416.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4416.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3362	
5°	3306	311
15°	2967	837
25°	2626	1191
35°	1396	882
45°	555	437
55°	392	349
65°	244	242
75°	122	130
85°	36	38
90°	0	



TEST NUMBER: P584598  
CATALOG NUMBER: HCC8S40D010BZ-HM82555930-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3362.2
2.5°	3347.4
5°	3305.8
7.5°	3240.5
10°	3148.4
12.5°	3053.3
15°	2967.1
17.5°	2884.0
20°	2806.9
22.5°	2729.6
25°	2625.6
27.5°	2474.1
30°	2251.4
32.5°	1909.8
35°	1396.0
37.5°	953.4
40°	721.7
42.5°	617.8
45°	555.4
47.5°	504.9
50°	460.4
52.5°	421.7
55°	392.1
57.5°	356.4
60°	317.8
62.5°	279.2
65°	243.6
67.5°	207.9
70°	178.3
72.5°	148.5
75°	121.7
77.5°	98.1
80°	74.3
82.5°	53.4
85°	35.7
87.5°	14.9
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)