

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: P584601

Luminaire Tested: **HCC8S40D010SL-HM82555930-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S40D010SL-HM82555930-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

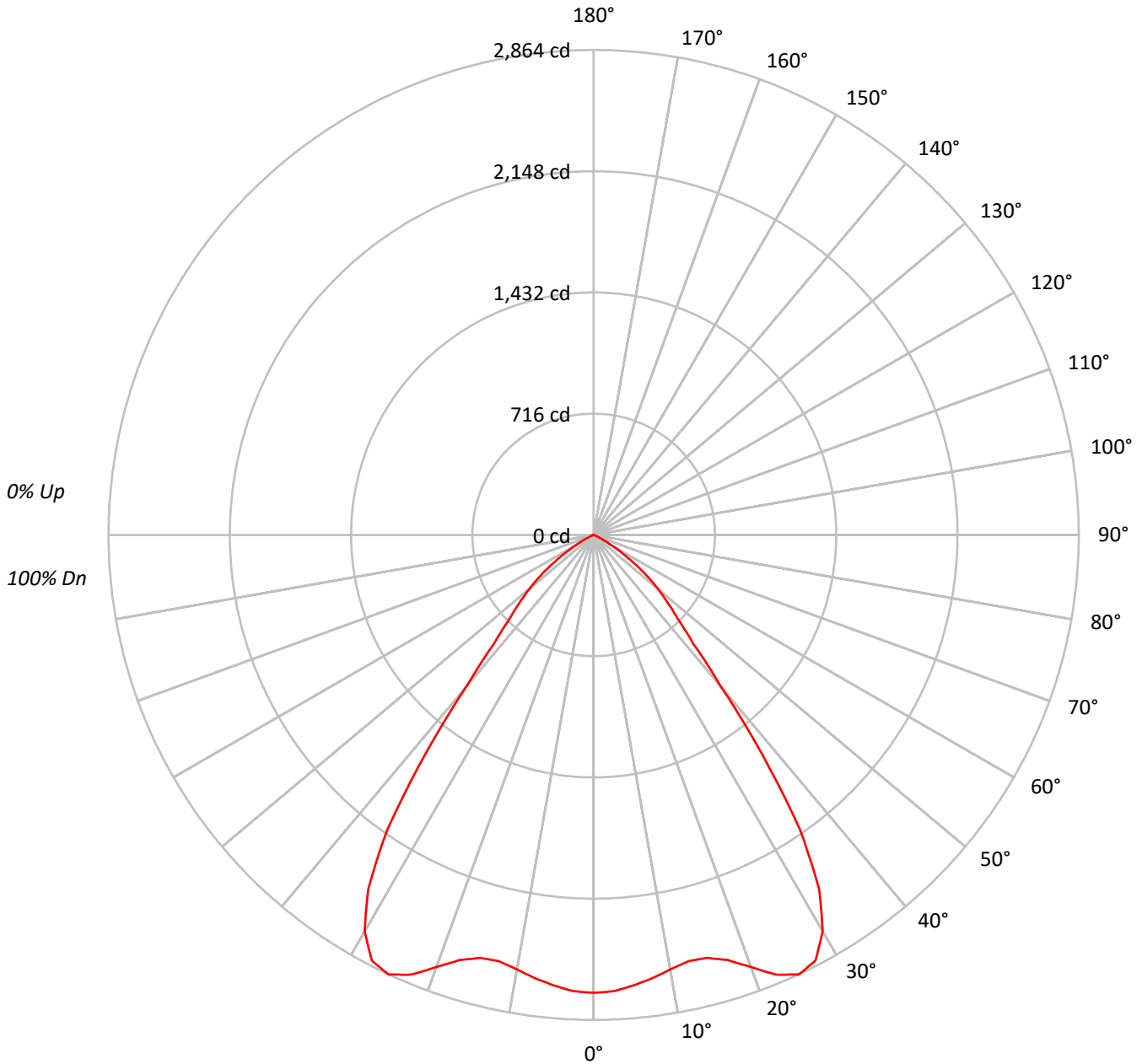
Lumens per Lamp: N/A  
Luminaire Lumens: 4449.6 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): 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: P584601  
CATALOG NUMBER: HCC8S40D010SL-HM82555930-81WDBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584601

CATALOG NUMBER: HCC8S40D010SL-HM82555930-81WDBB

**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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92					92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75					75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68					68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62					62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40					40			

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

	0°
0°	83369
5°	82678
10°	81583
15°	82517
20°	89110
25°	97445
30°	96266
35°	79855
40°	47001
45°	30705
50°	23799
55°	15817
60°	7697
65°	2386
70°	802
75°	703
80°	533
85°	1061



TEST NUMBER: P584601  
 CATALOG NUMBER: HCC8S40D010SL-HM82555930-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.9	5.7
10°-20°	742.6	16.7
20°-30°	1298.3	29.2
30°-40°	1262.9	28.4
40°-50°	574.3	12.9
50°-60°	266.3	6.0
60°-70°	44.6	1.0
70°-80°	5.5	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°	2293.8	51.6
0°-40°	3556.8	79.9
0°-60°	4397.5	98.8
0°-90°	4449.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4449.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2704	
5°	2671	253
15°	2585	743
25°	2864	1298
35°	2121	1263
45°	704	574
55°	294	266
65°	33	45
75°	6	5
85°	3	2
90°	0	



TEST NUMBER: P584601  
CATALOG NUMBER: HCC8S40D010SL-HM82555930-81WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2703.6
2.5°	2697.6
5°	2671.0
7.5°	2641.2
10°	2605.5
12.5°	2578.8
15°	2584.8
17.5°	2632.3
20°	2715.5
22.5°	2810.5
25°	2864.0
27.5°	2834.3
30°	2703.6
32.5°	2474.8
35°	2121.3
37.5°	1634.0
40°	1167.6
42.5°	870.5
45°	704.1
47.5°	594.2
50°	496.1
52.5°	395.2
55°	294.2
57.5°	202.1
60°	124.8
62.5°	68.3
65°	32.7
67.5°	14.9
70°	8.9
72.5°	5.9
75°	5.9
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)