

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: P593584

Luminaire Tested: **HCC8S20D010MB-HM80520850-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593584  
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: HCC8S20D010MB-HM80520850-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

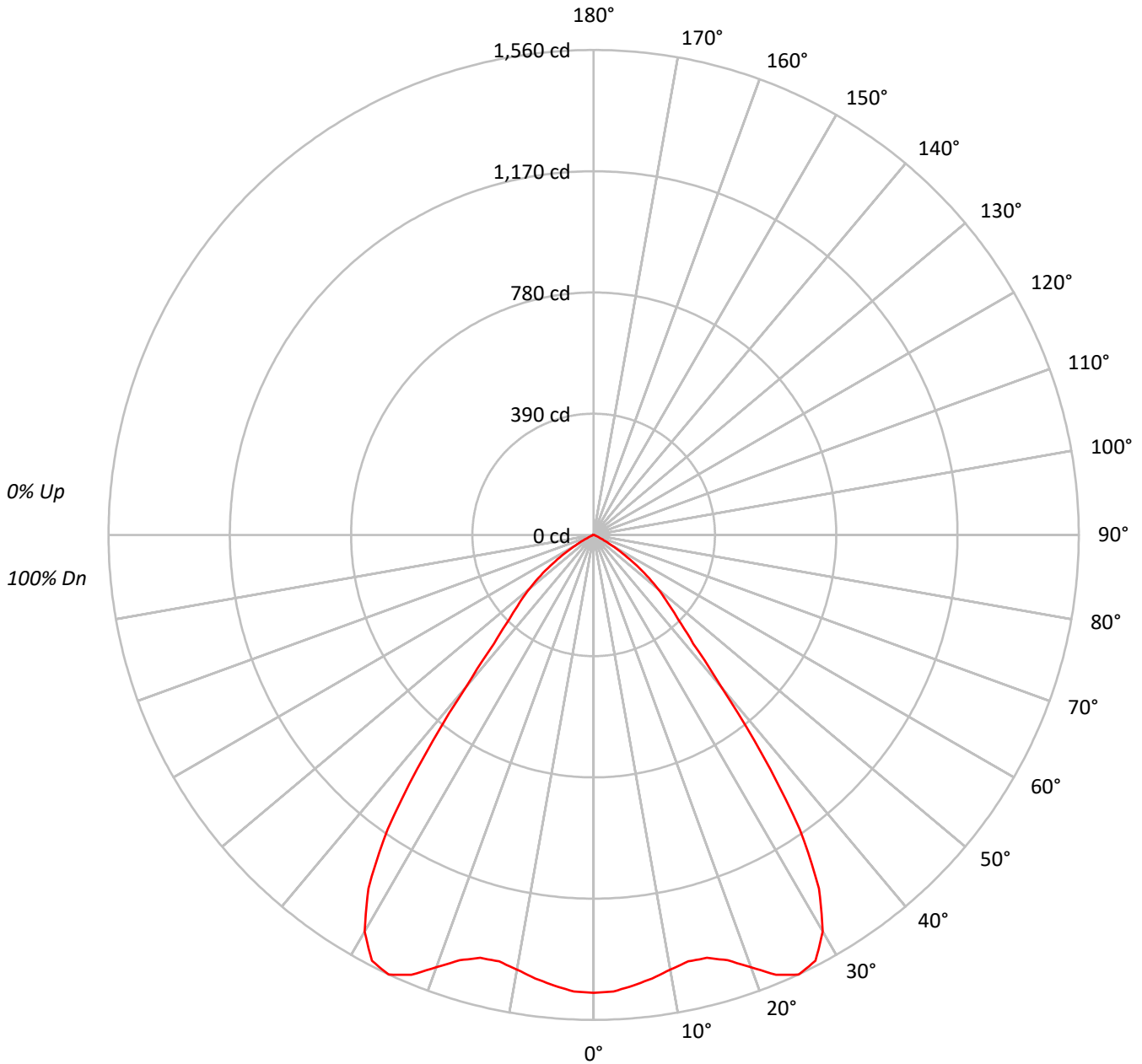
Lumens per Lamp: N/A  
Luminaire Lumens: 2424.3 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P593584  
CATALOG NUMBER: HCC8S20D010MB-HM80520850-81WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P593584

CATALOG NUMBER: HCC8S20D010MB-HM80520850-81WDBB

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

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

	0°
0°	45422
5°	45044
10°	44451
15°	44956
20°	48550
25°	53095
30°	52449
35°	43509
40°	25610
45°	16733
50°	12967
55°	8618
60°	4194
65°	1299
70°	433
75°	381
80°	302
85°	601



TEST NUMBER: P593584  
 CATALOG NUMBER: HCC8S20D010MB-HM80520850-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.8	5.7
10°-20°	404.6	16.7
20°-30°	707.4	29.2
30°-40°	688.1	28.4
40°-50°	312.9	12.9
50°-60°	145.1	6.0
60°-70°	24.3	1.0
70°-80°	3.0	0.1
80°-90°	1.2	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°	1249.8	51.6
0°-40°	1937.9	79.9
0°-60°	2395.9	98.8
0°-90°	2424.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2424.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1473	
5°	1455	138
15°	1408	405
25°	1560	707
35°	1156	688
45°	384	313
55°	160	145
65°	18	24
75°	3	3
85°	2	1
90°	0	



TEST NUMBER: P593584  
CATALOG NUMBER: HCC8S20D010MB-HM80520850-81WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1473.0
2.5°	1469.8
5°	1455.2
7.5°	1439.0
10°	1419.6
12.5°	1405.0
15°	1408.2
17.5°	1434.1
20°	1479.5
22.5°	1531.3
25°	1560.5
27.5°	1544.3
30°	1473.0
32.5°	1348.4
35°	1155.8
37.5°	890.3
40°	636.2
42.5°	474.2
45°	383.7
47.5°	323.7
50°	270.3
52.5°	215.2
55°	160.3
57.5°	110.0
60°	68.0
62.5°	37.2
65°	17.8
67.5°	8.0
70°	4.8
72.5°	3.2
75°	3.2
77.5°	1.7
80°	1.7
82.5°	1.7
85°	1.7
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)