

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: P583993

Luminaire Tested: **HCC8S20D010SL-HM80520830-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583993  
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: HCC8S20D010SL-HM80520830-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

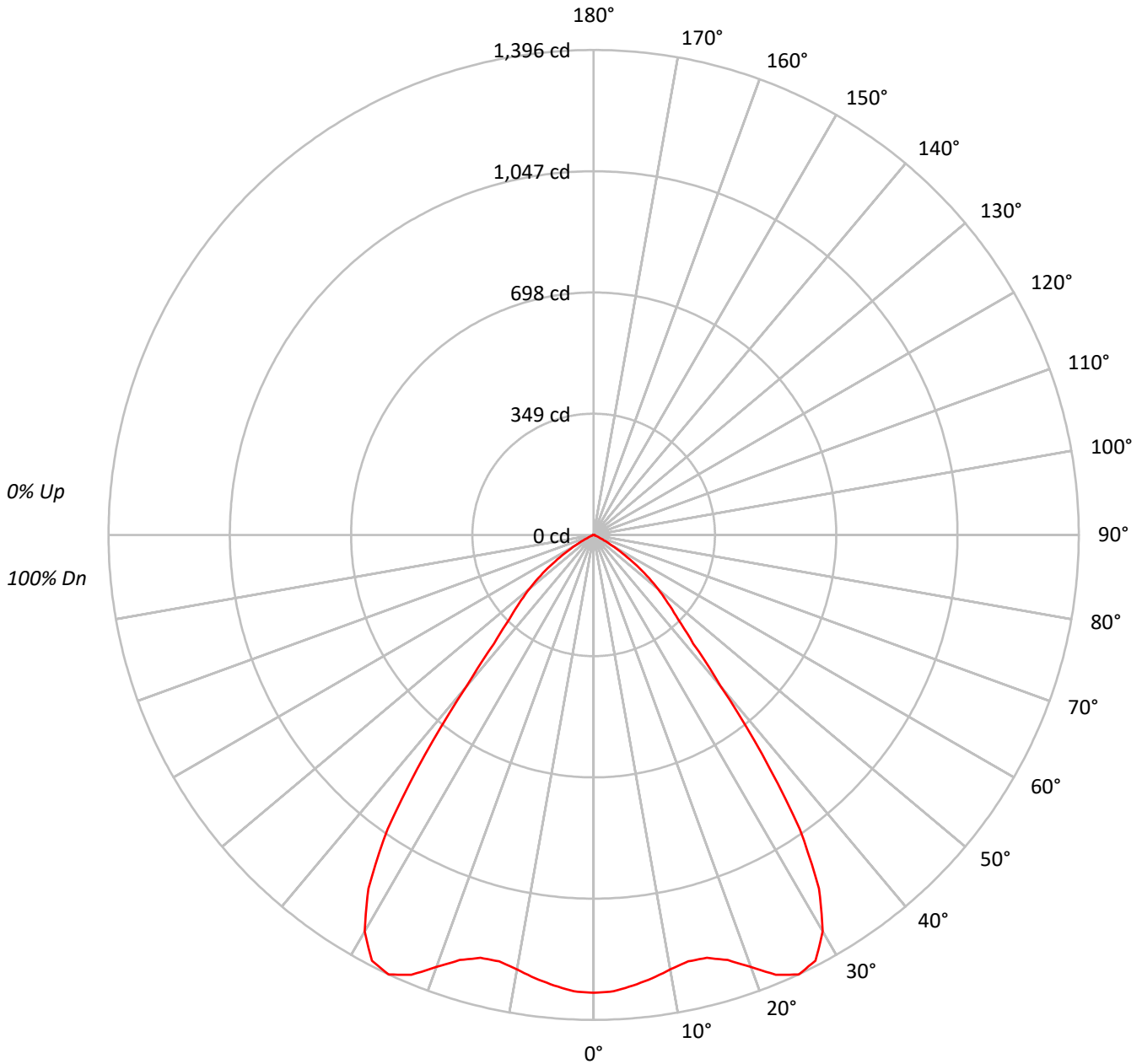
Lumens per Lamp: N/A  
Luminaire Lumens: 2169.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P583993  
CATALOG NUMBER: HCC8S20D010SL-HM80520830-81WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P583993

CATALOG NUMBER: HCC8S20D010SL-HM80520830-81WDBB

**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°	40639
5°	40302
10°	39769
15°	40224
20°	43438
25°	47501
30°	46926
35°	38924
40°	22909
45°	14971
50°	11600
55°	7709
60°	3756
65°	1167
70°	397
75°	357
80°	249
85°	495



TEST NUMBER: P583993  
 CATALOG NUMBER: HCC8S20D010SL-HM80520830-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	5.7
10°-20°	362.0	16.7
20°-30°	632.9	29.2
30°-40°	615.6	28.4
40°-50°	280.0	12.9
50°-60°	129.8	6.0
60°-70°	21.8	1.0
70°-80°	2.7	0.1
80°-90°	1.0	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°	1118.2	51.6
0°-40°	1733.8	79.9
0°-60°	2143.6	98.8
0°-90°	2169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2169.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1318	
5°	1302	123
15°	1260	362
25°	1396	633
35°	1034	616
45°	343	280
55°	143	130
65°	16	22
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P583993  
CATALOG NUMBER: HCC8S20D010SL-HM80520830-81WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1317.9
2.5°	1315.0
5°	1302.0
7.5°	1287.4
10°	1270.1
12.5°	1257.1
15°	1260.0
17.5°	1283.2
20°	1323.7
22.5°	1370.1
25°	1396.1
27.5°	1381.6
30°	1317.9
32.5°	1206.3
35°	1034.0
37.5°	796.5
40°	569.1
42.5°	424.3
45°	343.3
47.5°	289.6
50°	241.8
52.5°	192.7
55°	143.4
57.5°	98.5
60°	60.9
62.5°	33.3
65°	16.0
67.5°	7.2
70°	4.4
72.5°	3.0
75°	3.0
77.5°	1.4
80°	1.4
82.5°	1.4
85°	1.4
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)