

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: P584016

Luminaire Tested: **HCC8W20D010SL-HM80520840-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W20D010SL-HM80520840-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

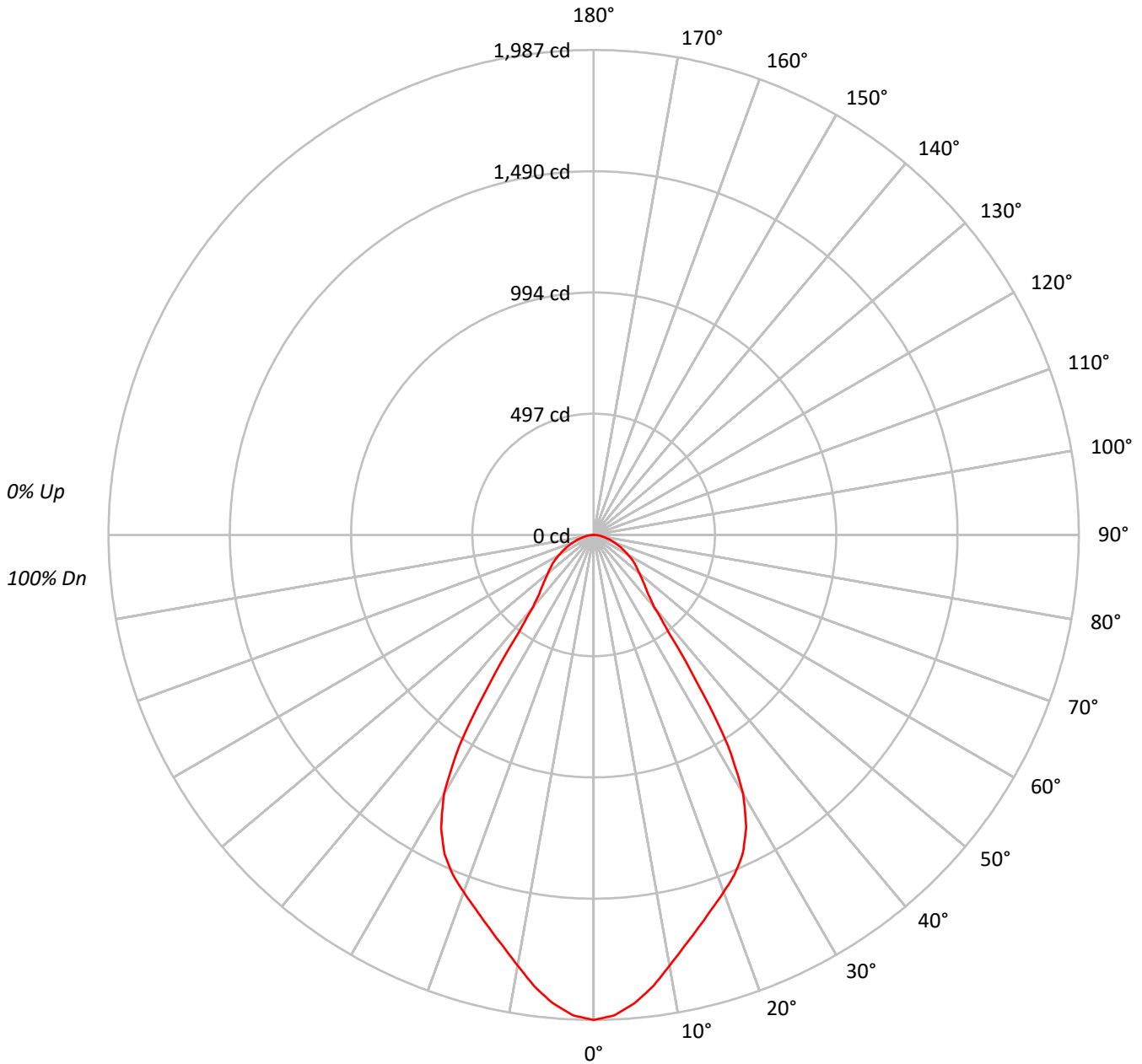
Lumens per Lamp: N/A  
Luminaire Lumens: 2396.8 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584016  
CATALOG NUMBER: HCC8W20D010SL-HM80520840-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584016

CATALOG NUMBER: HCC8W20D010SL-HM80520840-81MDW

**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	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54	54	54	54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46	46	46	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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

	0°
0°	61284
5°	59618
10°	56099
15°	53115
20°	51090
25°	49121
30°	43622
35°	27781
40°	15506
45°	12982
50°	11725
55°	11048
60°	10083
65°	9091
70°	8024
75°	7137
80°	6322
85°	5732



TEST NUMBER: P584016  
 CATALOG NUMBER: HCC8W20D010SL-HM80520840-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.6	7.5
10°-20°	469.2	19.6
20°-30°	654.6	27.3
30°-40°	471.0	19.7
40°-50°	233.4	9.7
50°-60°	182.6	7.6
60°-70°	123.7	5.2
70°-80°	64.2	2.7
80°-90°	18.5	0.8
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°	1303.4	54.4
0°-40°	1774.4	74.0
0°-60°	2190.4	91.4
0°-90°	2396.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1987	
5°	1926	180
15°	1664	469
25°	1444	655
35°	738	471
45°	298	233
55°	206	183
65°	125	124
75°	60	64
85°	16	18
90°	0	



TEST NUMBER: P584016  
CATALOG NUMBER: HCC8W20D010SL-HM80520840-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1987.4
2.5°	1969.7
5°	1926.0
7.5°	1864.5
10°	1791.6
12.5°	1723.6
15°	1663.8
17.5°	1607.2
20°	1556.9
22.5°	1506.8
25°	1443.7
27.5°	1353.0
30°	1225.1
32.5°	1024.4
35°	738.0
37.5°	503.3
40°	385.2
42.5°	331.8
45°	297.7
47.5°	268.7
50°	244.4
52.5°	223.4
55°	205.5
57.5°	184.5
60°	163.5
62.5°	142.4
65°	124.6
67.5°	106.9
70°	89.0
72.5°	74.5
75°	59.9
77.5°	46.9
80°	35.6
82.5°	25.9
85°	16.2
87.5°	8.0
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)