

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: P593595

Luminaire Tested: **HCC8W20D010MB-HM80520850-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W20D010MB-HM80520850-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

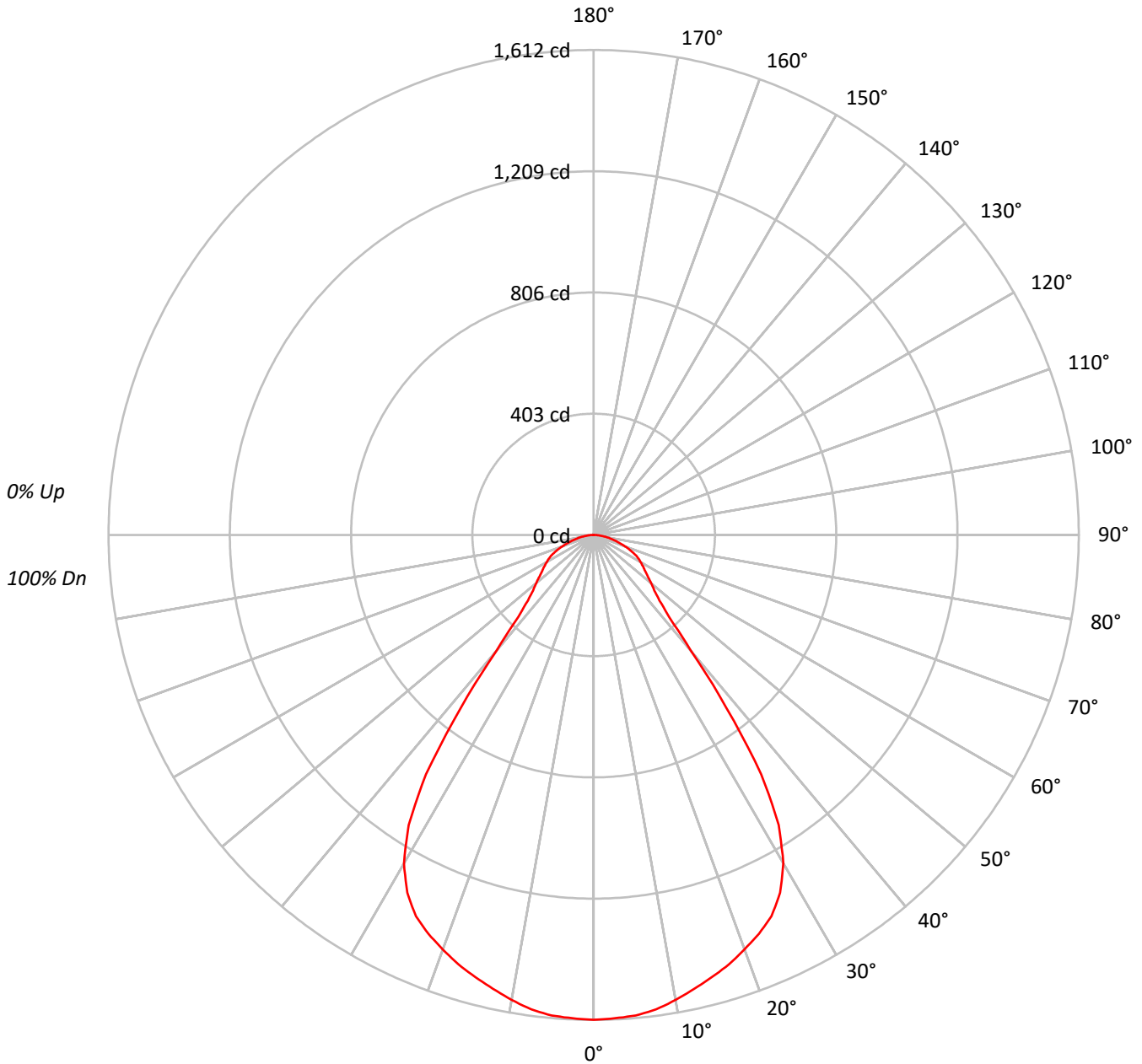
Lumens per Lamp: N/A  
Luminaire Lumens: 2485.8 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P593595  
CATALOG NUMBER: HCC8W20D010MB-HM80520850-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593595  
 CATALOG NUMBER: HCC8W20D010MB-HM80520850-81WDW

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

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

	0°
0°	49699
5°	49635
10°	49147
15°	48557
20°	48107
25°	47569
30°	44882
35°	36549
40°	20191
45°	13480
50°	11955
55°	11220
60°	11083
65°	10981
70°	9918
75°	8876
80°	7760
85°	6864



TEST NUMBER: P593595  
 CATALOG NUMBER: HCC8W20D010MB-HM80520850-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.0	6.1
10°-20°	429.5	17.3
20°-30°	638.1	25.7
30°-40°	574.7	23.1
40°-50°	254.8	10.3
50°-60°	188.7	7.6
60°-70°	146.8	5.9
70°-80°	79.6	3.2
80°-90°	21.7	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°	1219.6	49.1
0°-40°	1794.3	72.2
0°-60°	2237.8	90.0
0°-90°	2485.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1612	
5°	1604	152
15°	1521	429
25°	1398	638
35°	971	575
45°	309	255
55°	209	189
65°	150	147
75°	74	80
85°	19	22
90°	0	



TEST NUMBER: P593595  
CATALOG NUMBER: HCC8W20D010MB-HM80520850-81WDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1611.7
2.5°	1608.3
5°	1603.5
7.5°	1590.6
10°	1569.6
12.5°	1545.2
15°	1521.0
17.5°	1496.8
20°	1466.0
22.5°	1435.2
25°	1398.1
27.5°	1341.3
30°	1260.5
32.5°	1143.9
35°	970.9
37.5°	724.9
40°	501.6
42.5°	370.6
45°	309.1
47.5°	273.5
50°	249.2
52.5°	226.6
55°	208.7
57.5°	194.2
60°	179.7
62.5°	166.7
65°	150.5
67.5°	131.1
70°	110.0
72.5°	92.2
75°	74.5
77.5°	58.3
80°	43.7
82.5°	30.7
85°	19.4
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)