

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: P593830

Luminaire Tested: **HCC8S55D010MB-HM82555850-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593830  
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: HCC8S55D010MB-HM82555850-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

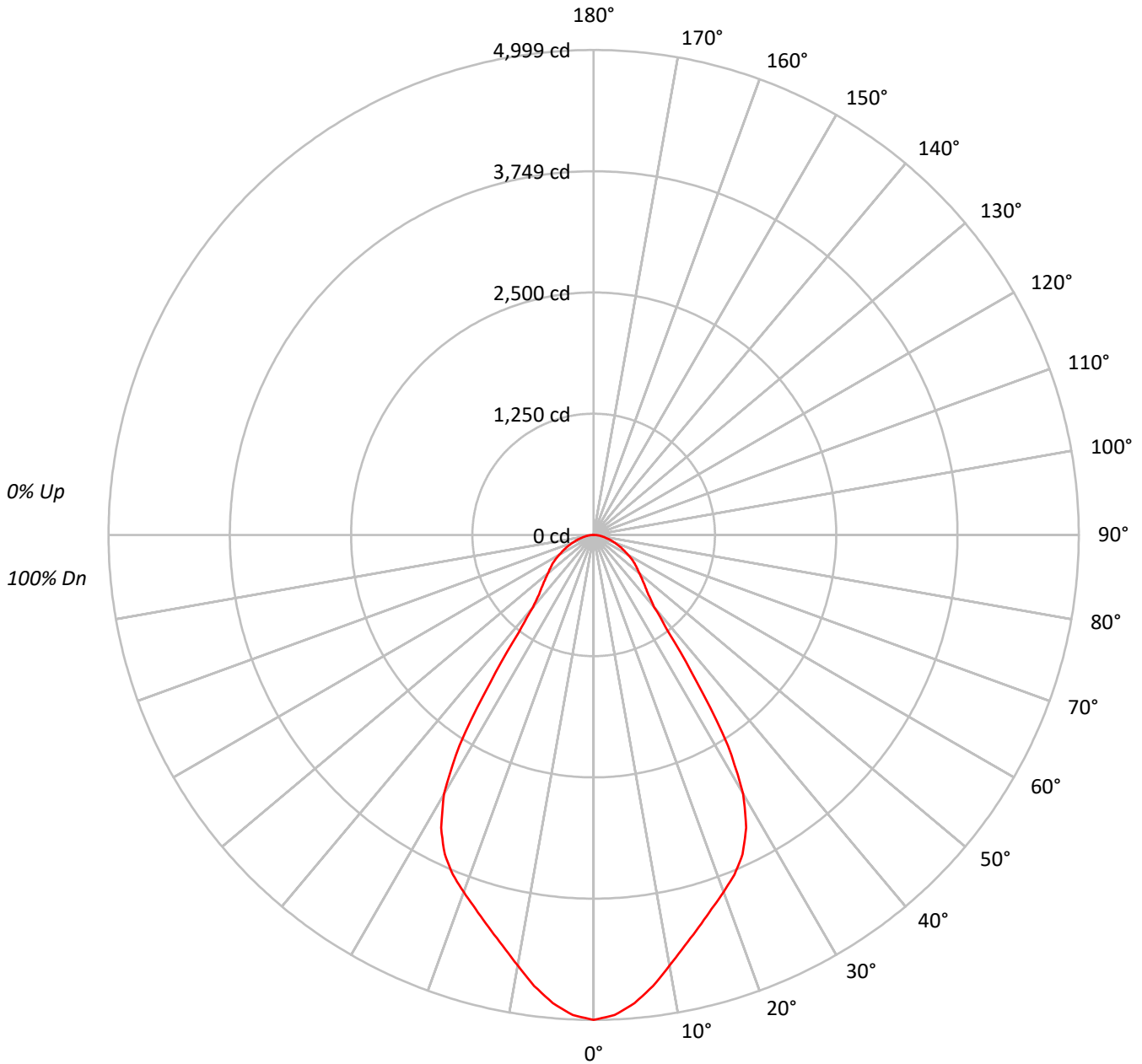
Lumens per Lamp: N/A  
Luminaire Lumens: 6028.7 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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: P593830  
CATALOG NUMBER: HCC8S55D010MB-HM82555850-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593830

CATALOG NUMBER: HCC8S55D010MB-HM82555850-81MDW

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

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

	0°
0°	154157
5°	149957
10°	141111
15°	133602
20°	128511
25°	123552
30°	109729
35°	69879
40°	39002
45°	32663
50°	29489
55°	27795
60°	25354
65°	22875
70°	20187
75°	17943
80°	15893
85°	14400



TEST NUMBER: P593830  
 CATALOG NUMBER: HCC8S55D010MB-HM82555850-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.6	7.5
10°-20°	1180.3	19.6
20°-30°	1646.5	27.3
30°-40°	1184.8	19.7
40°-50°	587.2	9.7
50°-60°	459.4	7.6
60°-70°	311.0	5.2
70°-80°	161.5	2.7
80°-90°	46.5	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°	3278.4	54.4
0°-40°	4463.2	74.0
0°-60°	5509.7	91.4
0°-90°	6028.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6028.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4999	
5°	4844	452
15°	4185	1180
25°	3631	1647
35°	1856	1185
45°	749	587
55°	517	459
65°	314	311
75°	151	161
85°	41	47
90°	0	



TEST NUMBER: P593830  
CATALOG NUMBER: HCC8S55D010MB-HM82555850-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4999.2
2.5°	4954.3
5°	4844.5
7.5°	4689.8
10°	4506.6
12.5°	4335.6
15°	4185.0
17.5°	4042.5
20°	3916.2
22.5°	3790.0
25°	3631.3
27.5°	3403.3
30°	3081.7
32.5°	2576.9
35°	1856.3
37.5°	1266.1
40°	968.9
42.5°	834.6
45°	749.0
47.5°	675.8
50°	614.7
52.5°	561.7
55°	517.0
57.5°	464.1
60°	411.1
62.5°	358.3
65°	313.5
67.5°	268.7
70°	223.9
72.5°	187.3
75°	150.6
77.5°	118.0
80°	89.5
82.5°	65.2
85°	40.7
87.5°	20.4
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)