

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: P593831

Luminaire Tested: **HCC8W55D010SL-HM82555850-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W55D010SL-HM82555850-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

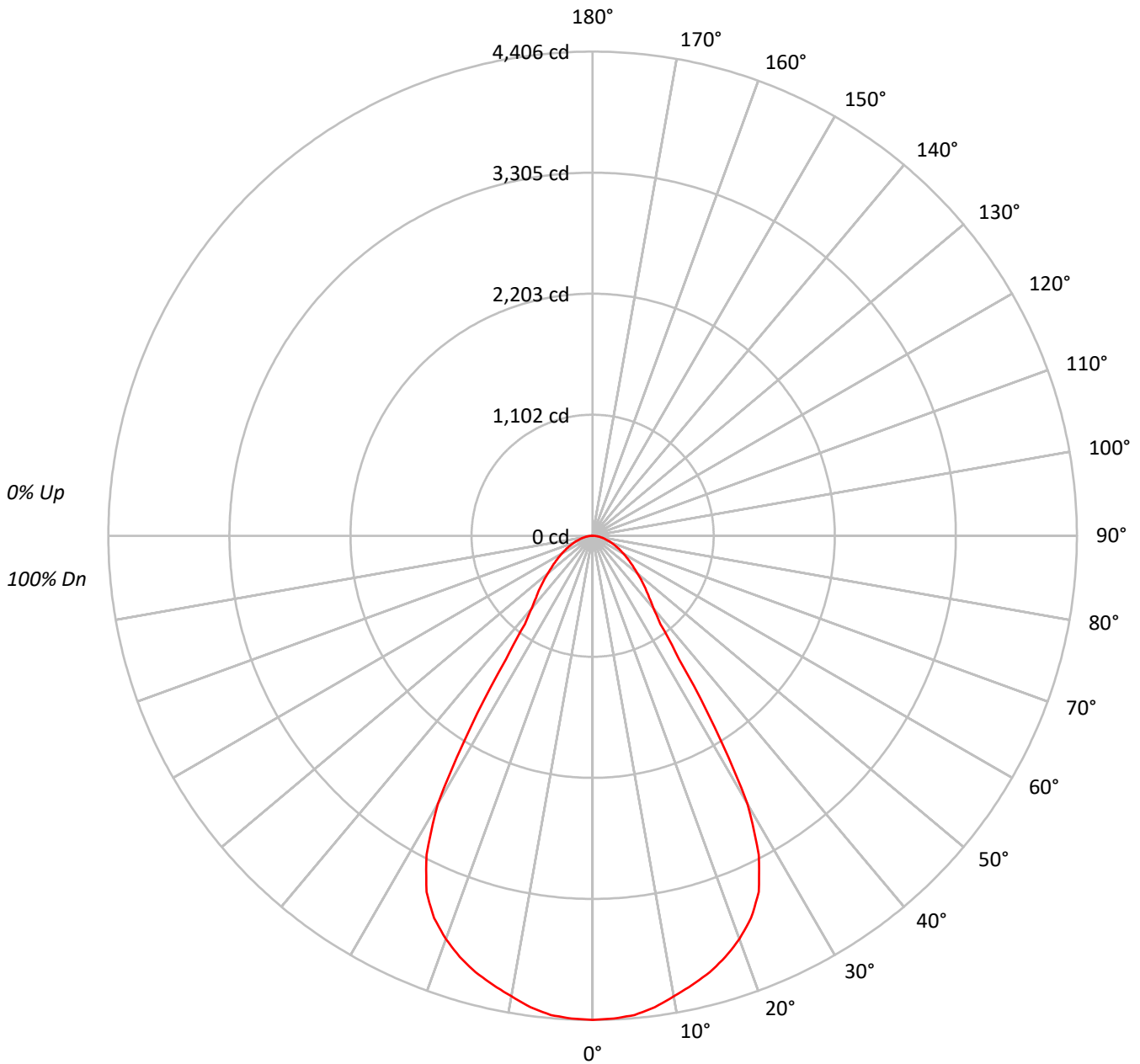
Lumens per Lamp: N/A  
Luminaire Lumens: 5450.7 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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: P593831  
CATALOG NUMBER: HCC8W55D010SL-HM82555850-81NDW

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P593831

CATALOG NUMBER: HCC8W55D010SL-HM82555850-81NDW

**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
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

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

	0°
0°	135862
5°	135498
10°	133239
15°	131294
20°	128144
25°	121643
30°	100333
35°	51659
40°	34586
45°	29654
50°	25589
55°	22333
60°	19840
65°	17833
70°	16157
75°	14547
80°	12999
85°	12985



TEST NUMBER: P593831  
 CATALOG NUMBER: HCC8W55D010SL-HM82555850-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.9	7.6
10°-20°	1157.1	21.2
20°-30°	1603.2	29.4
30°-40°	963.0	17.7
40°-50°	527.1	9.7
50°-60°	374.5	6.9
60°-70°	243.1	4.5
70°-80°	129.9	2.4
80°-90°	38.8	0.7
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°	3174.2	58.2
0°-40°	4137.2	75.9
0°-60°	5038.8	92.4
0°-90°	5450.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5450.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4406	
5°	4377	414
15°	4113	1157
25°	3575	1603
35°	1372	963
45°	680	527
55°	415	375
65°	244	243
75°	122	130
85°	37	39
90°	0	



TEST NUMBER: P593831  
CATALOG NUMBER: HCC8W55D010SL-HM82555850-81NDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4405.9
2.5°	4397.7
5°	4377.4
7.5°	4328.5
10°	4255.2
12.5°	4186.0
15°	4112.7
17.5°	4019.0
20°	3905.0
22.5°	3766.6
25°	3575.2
27.5°	3273.9
30°	2817.8
32.5°	2064.5
35°	1372.3
37.5°	1013.9
40°	859.2
42.5°	761.4
45°	680.0
47.5°	602.6
50°	533.4
52.5°	468.3
55°	415.4
57.5°	366.5
60°	321.7
62.5°	280.9
65°	244.4
67.5°	207.7
70°	179.2
72.5°	146.6
75°	122.1
77.5°	97.7
80°	73.2
82.5°	53.0
85°	36.7
87.5°	16.3
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)