

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: P582606

Luminaire Tested: **HCC6S45D010MW-HM64560835-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582606  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S45D010MW-HM64560835-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

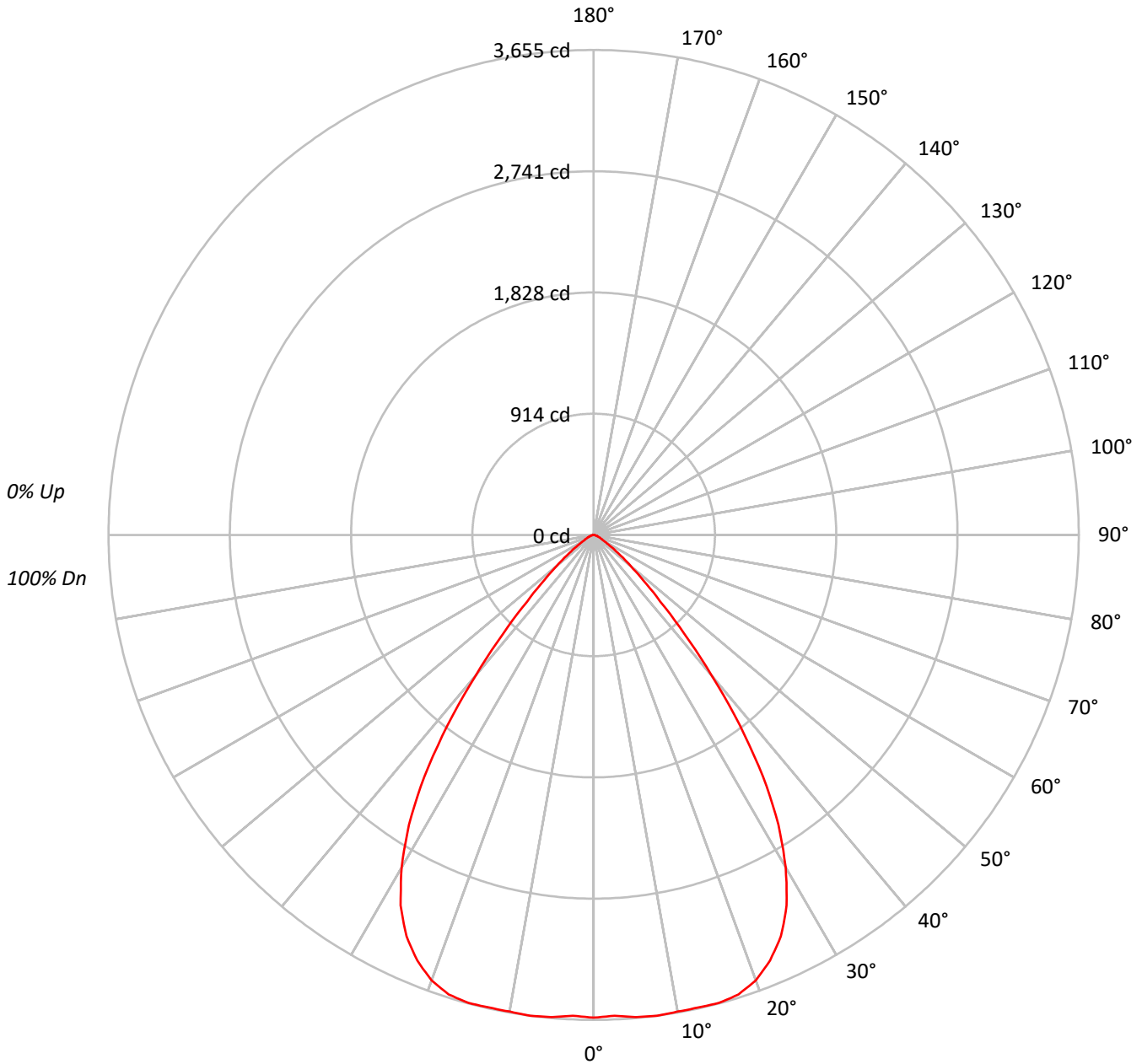
Lumens per Lamp: N/A  
Luminaire Lumens: 5092.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P582606  
CATALOG NUMBER: HCC6S45D010MW-HM64560835-61WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582606  
 CATALOG NUMBER: HCC6S45D010MW-HM64560835-61WDH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92																												
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84																												
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77																												
4	94	86	79	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																												
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																												
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59																												
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54																												
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50																												
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46																												
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43																												

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

	0°
0°	199419
5°	200748
10°	203069
15°	207237
20°	208402
25°	201907
30°	183174
35°	148931
40°	98849
45°	55021
50°	30856
55°	17118
60°	9440
65°	7147
70°	4969
75°	3643
80°	2178
85°	2139



TEST NUMBER: P582606  
 CATALOG NUMBER: HCC6S45D010MW-HM64560835-61WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.2	6.8
10°-20°	1029.6	20.2
20°-30°	1517.5	29.8
30°-40°	1357.3	26.7
40°-50°	588.9	11.6
50°-60°	173.0	3.4
60°-70°	55.2	1.1
70°-80°	19.5	0.4
80°-90°	2.8	0.1
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°	2895.3	56.9
0°-40°	4252.6	83.5
0°-60°	5014.5	98.5
0°-90°	5092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5092.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3638	
5°	3648	348
15°	3652	1030
25°	3338	1518
35°	2225	1357
45°	710	589
55°	179	173
65°	55	55
75°	17	19
85°	3	3
90°	0	



TEST NUMBER: P582606  
CATALOG NUMBER: HCC6S45D010MW-HM64560835-61WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3637.7
2.5°	3627.4
5°	3648.0
7.5°	3655.0
10°	3648.0
12.5°	3648.0
15°	3651.5
17.5°	3630.9
20°	3572.3
22.5°	3472.4
25°	3338.0
27.5°	3148.6
30°	2893.7
32.5°	2590.5
35°	2225.4
37.5°	1808.5
40°	1381.3
42.5°	1009.4
45°	709.7
47.5°	506.4
50°	361.8
52.5°	258.4
55°	179.1
57.5°	120.6
60°	86.1
62.5°	68.9
65°	55.1
67.5°	41.3
70°	31.0
72.5°	24.2
75°	17.2
77.5°	13.7
80°	6.9
82.5°	3.4
85°	3.4
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)