

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: P582673

Luminaire Tested: **HCC6W45D010SL-HM64560935-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010SL-HM64560935-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

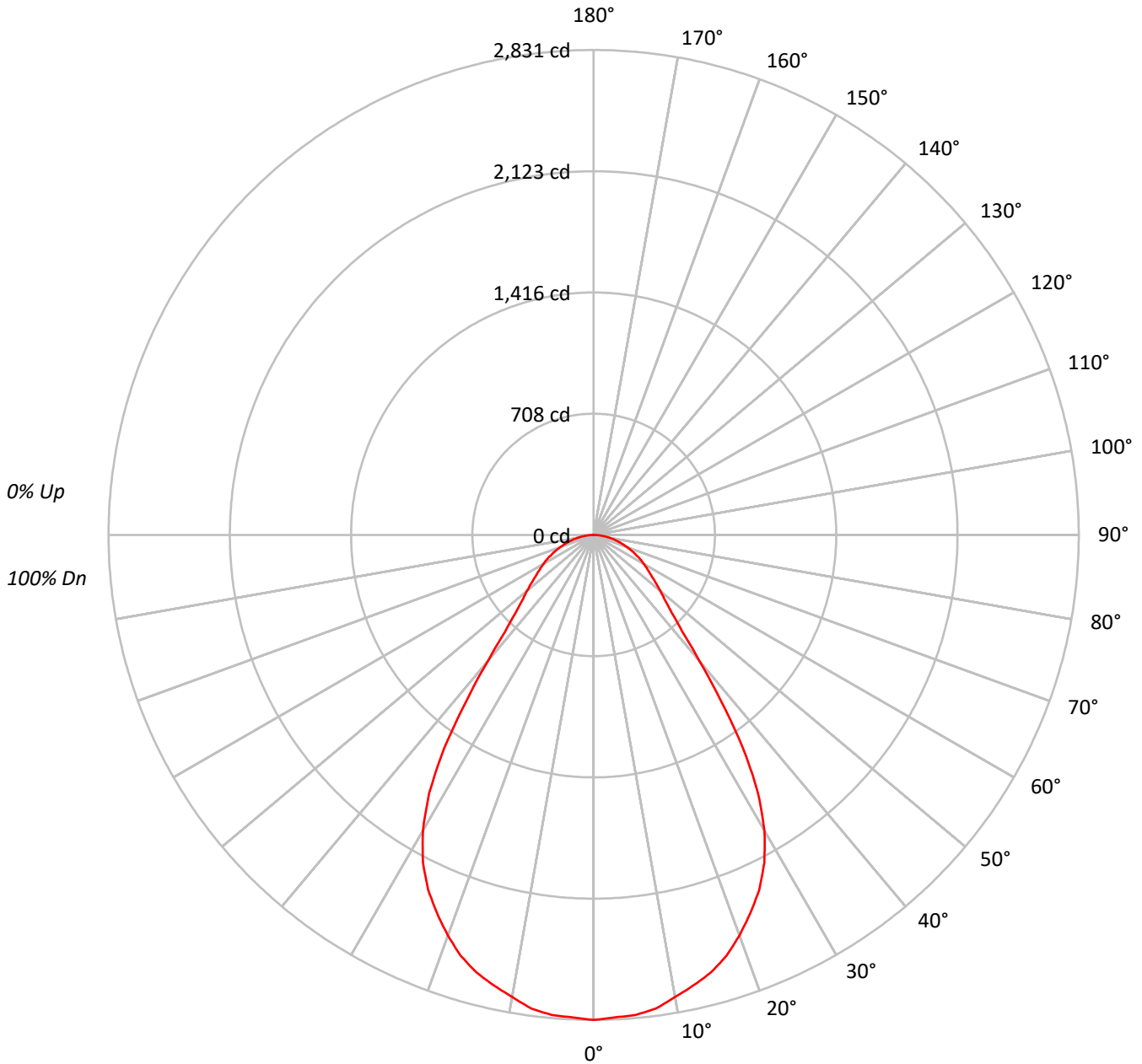
Lumens per Lamp: N/A  
Luminaire Lumens: 4342.3 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582673  
CATALOG NUMBER: HCC6W45D010SL-HM64560935-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582673  
 CATALOG NUMBER: HCC6W45D010SL-HM64560935-61PSMDW

**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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			78	
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			69	
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			62	
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56	
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51	
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46	
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			36	

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

	0°
0°	155207
5°	154782
10°	152480
15°	150063
20°	145123
25°	138220
30°	126203
35°	101609
40°	68493
45°	49935
50°	43163
55°	38995
60°	36993
65°	35010
70°	32938
75°	31178
80°	29044
85°	26984



TEST NUMBER: P582673  
 CATALOG NUMBER: HCC6W45D010SL-HM64560935-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.2	6.1
10°-20°	742.5	17.1
20°-30°	1043.2	24.0
30°-40°	928.6	21.4
40°-50°	518.9	12.0
50°-60°	369.7	8.5
60°-70°	269.0	6.2
70°-80°	155.7	3.6
80°-90°	48.4	1.1
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°	2051.9	47.3
0°-40°	2980.5	68.6
0°-60°	3869.2	89.1
0°-90°	4342.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4342.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2831	
5°	2813	266
15°	2644	743
25°	2285	1043
35°	1518	929
45°	644	519
55°	408	370
65°	270	269
75°	147	156
85°	43	48
90°	0	



TEST NUMBER: P582673

CATALOG NUMBER: HCC6W45D010SL-HM64560935-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2831.2
2.5°	2818.8
5°	2812.7
7.5°	2788.2
10°	2739.2
12.5°	2693.1
15°	2644.1
17.5°	2576.6
20°	2487.6
22.5°	2389.5
25°	2285.1
27.5°	2156.3
30°	1993.7
32.5°	1785.2
35°	1518.3
37.5°	1217.7
40°	957.1
42.5°	763.7
45°	644.1
47.5°	564.4
50°	506.1
52.5°	454.0
55°	408.0
57.5°	371.1
60°	337.4
62.5°	306.7
65°	269.9
67.5°	239.3
70°	205.5
72.5°	174.9
75°	147.2
77.5°	119.6
80°	92.0
82.5°	67.4
85°	42.9
87.5°	21.5
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)