

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: P582690

Luminaire Tested: **HCC6W45D010MW-HM64560940-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010MW-HM64560940-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

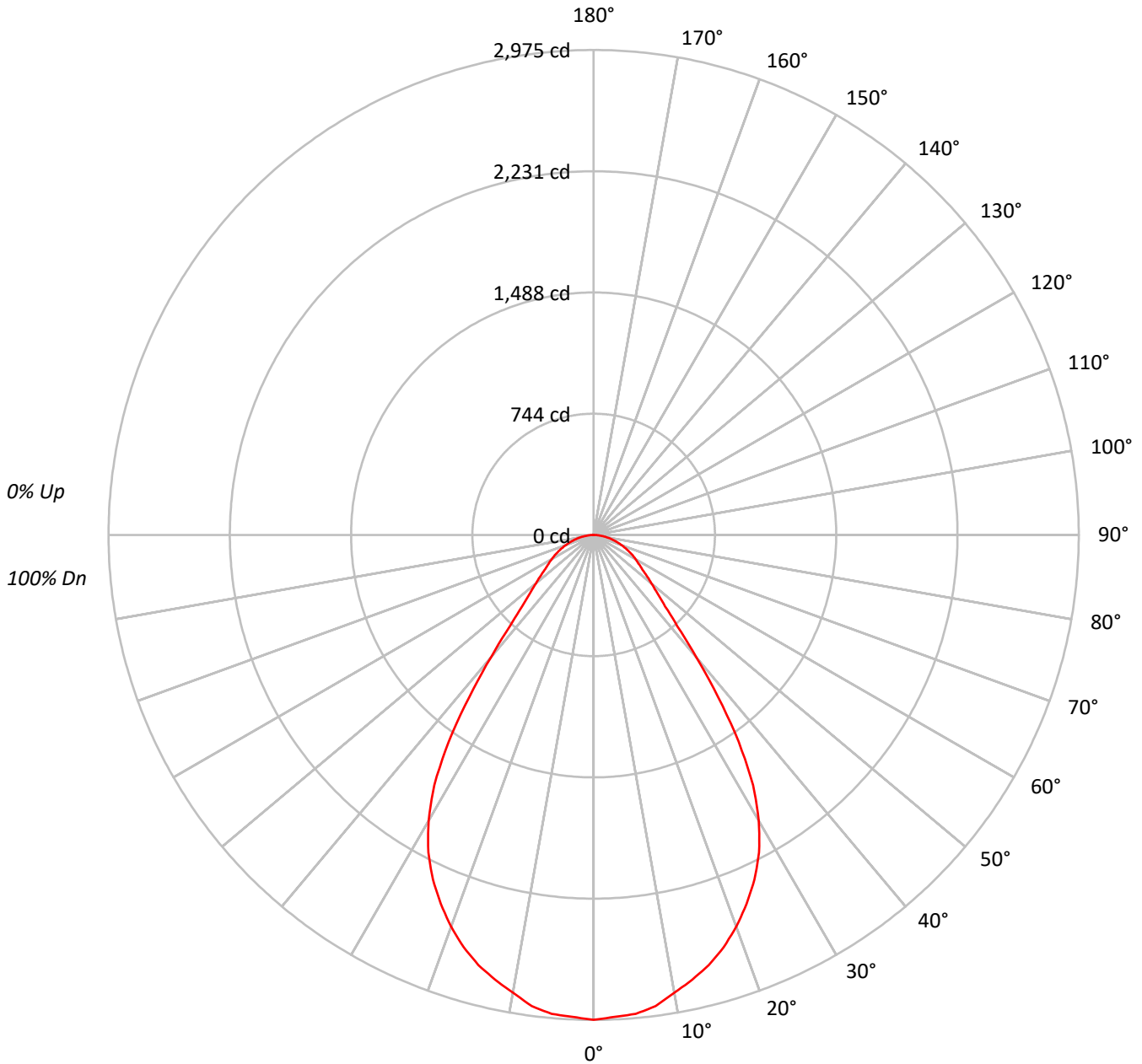
Lumens per Lamp: N/A  
Luminaire Lumens: 4305.4 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582690  
CATALOG NUMBER: HCC6W45D010MW-HM64560940-61NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582690

CATALOG NUMBER: HCC6W45D010MW-HM64560940-61NDW

**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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

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

	0°
0°	163068
5°	162299
10°	158714
15°	154995
20°	149165
25°	141075
30°	128203
35°	103771
40°	69974
45°	48090
50°	39402
55°	34474
60°	32618
65°	30782
70°	28915
75°	27472
80°	24972
85°	21889



TEST NUMBER: P582690  
 CATALOG NUMBER: HCC6W45D010MW-HM64560940-61NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.4	6.5
10°-20°	766.9	17.8
20°-30°	1065.5	24.7
30°-40°	948.7	22.0
40°-50°	503.6	11.7
50°-60°	329.3	7.6
60°-70°	236.0	5.5
70°-80°	136.9	3.2
80°-90°	40.0	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°	2110.8	49.0
0°-40°	3059.5	71.1
0°-60°	3892.4	90.4
0°-90°	4305.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4305.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2975	
5°	2949	278
15°	2731	767
25°	2332	1066
35°	1551	949
45°	620	504
55°	361	329
65°	237	236
75°	130	137
85°	35	40
90°	0	



TEST NUMBER: P582690  
CATALOG NUMBER: HCC6W45D010MW-HM64560940-61NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2974.6
2.5°	2958.8
5°	2949.3
7.5°	2914.6
10°	2851.2
12.5°	2794.2
15°	2731.0
17.5°	2651.8
20°	2556.9
22.5°	2449.3
25°	2332.3
27.5°	2196.2
30°	2025.3
32.5°	1819.6
35°	1550.6
37.5°	1253.1
40°	977.8
42.5°	759.5
45°	620.3
47.5°	528.4
50°	462.0
52.5°	408.2
55°	360.7
57.5°	326.0
60°	297.5
62.5°	269.0
65°	237.3
67.5°	208.9
70°	180.4
72.5°	155.1
75°	129.7
77.5°	104.4
80°	79.1
82.5°	57.0
85°	34.8
87.5°	15.8
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)