

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: P582445

Luminaire Tested: **HCC6W40D010MB-HM63040830-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010MB-HM63040830-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

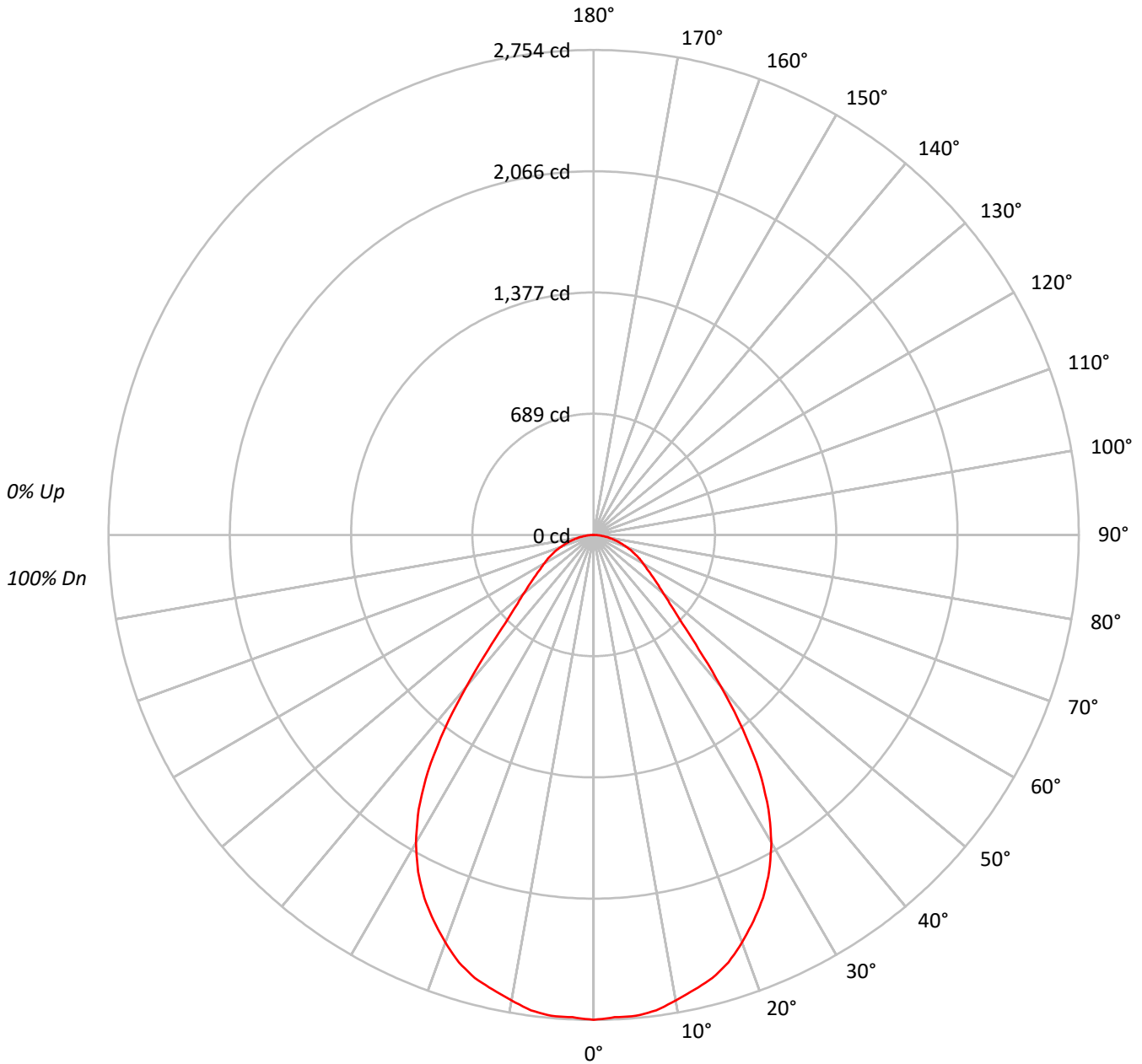
Lumens per Lamp: N/A  
Luminaire Lumens: 4424.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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: P582445  
CATALOG NUMBER: HCC6W40D010MB-HM63040830-61WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582445  
 CATALOG NUMBER: HCC6W40D010MB-HM63040830-61WDW

**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	94	92	90	89			89	
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78	
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69	
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62	
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56	
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51	
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46	
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36	

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

	0°
0°	150964
5°	150880
10°	149418
15°	147867
20°	143693
25°	137615
30°	127722
35°	109888
40°	80215
45°	54967
50°	44186
55°	38517
60°	35545
65°	33791
70°	31560
75°	29526
80°	26771
85°	22895



TEST NUMBER: P582445  
 CATALOG NUMBER: HCC6W40D010MB-HM63040830-61WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.9	5.9
10°-20°	731.7	16.5
20°-30°	1040.7	23.5
30°-40°	1001.9	22.6
40°-50°	576.5	13.0
50°-60°	365.3	8.3
60°-70°	258.6	5.8
70°-80°	147.4	3.3
80°-90°	42.0	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°	2032.3	45.9
0°-40°	3034.2	68.6
0°-60°	3976.0	89.9
0°-90°	4424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2754	
5°	2742	260
15°	2605	732
25°	2275	1041
35°	1642	1002
45°	709	576
55°	403	365
65°	260	259
75°	139	147
85°	36	42
90°	0	



TEST NUMBER: P582445  
CATALOG NUMBER: HCC6W40D010MB-HM63040830-61WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2753.8
2.5°	2741.8
5°	2741.8
7.5°	2723.6
10°	2684.2
12.5°	2644.9
15°	2605.4
17.5°	2544.9
20°	2463.1
22.5°	2372.1
25°	2275.1
27.5°	2157.1
30°	2017.7
32.5°	1848.1
35°	1642.0
37.5°	1390.6
40°	1120.9
42.5°	884.7
45°	709.0
47.5°	596.8
50°	518.1
52.5°	454.4
55°	403.0
57.5°	357.4
60°	324.2
62.5°	293.9
65°	260.5
67.5°	230.3
70°	196.9
72.5°	166.6
75°	139.4
77.5°	112.1
80°	84.8
82.5°	60.5
85°	36.4
87.5°	15.2
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)