

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: P582546

Luminaire Tested: **HCC6W40D010BZ-HM63040940-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582546  
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: HCC6W40D010BZ-HM63040940-61NDW  
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**

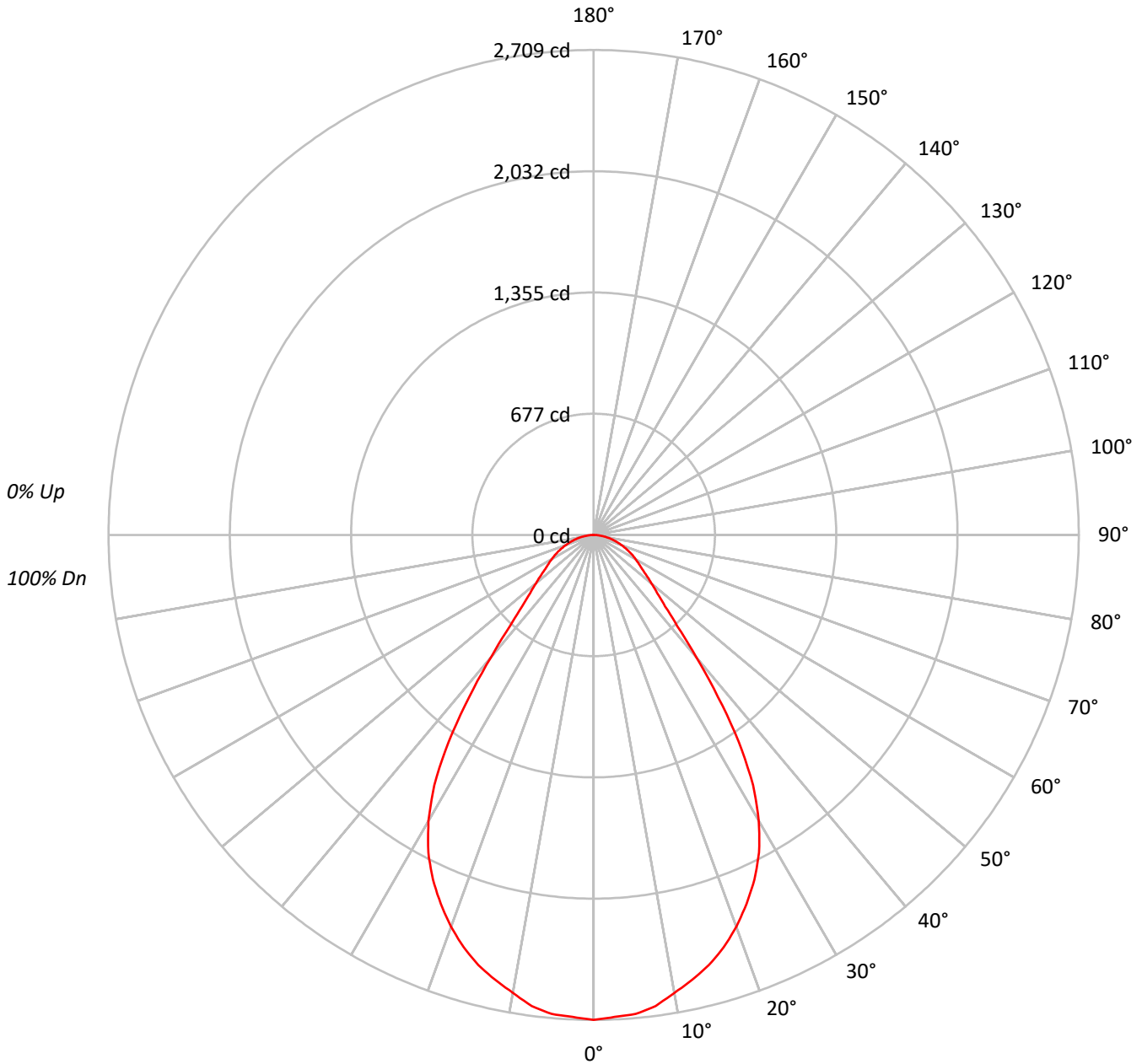
Lumens per Lamp: N/A  
Luminaire Lumens: 3921.2 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P582546  
CATALOG NUMBER: HCC6W40D010BZ-HM63040940-61NDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582546

CATALOG NUMBER: HCC6W40D010BZ-HM63040940-61NDW

**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°	148519
5°	147815
10°	144553
15°	141159
20°	135858
25°	128481
30°	116765
35°	94515
40°	63734
45°	43795
50°	35888
55°	31406
60°	29702
65°	28045
70°	26335
75°	25036
80°	22730
85°	19939



TEST NUMBER: P582546  
 CATALOG NUMBER: HCC6W40D010BZ-HM63040940-61NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.6	6.5
10°-20°	698.5	17.8
20°-30°	970.4	24.7
30°-40°	864.0	22.0
40°-50°	458.7	11.7
50°-60°	300.0	7.6
60°-70°	214.9	5.5
70°-80°	124.7	3.2
80°-90°	36.4	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°	1922.5	49.0
0°-40°	2786.5	71.1
0°-60°	3545.2	90.4
0°-90°	3921.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3921.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2709	
5°	2686	254
15°	2487	698
25°	2124	970
35°	1412	864
45°	565	459
55°	329	300
65°	216	215
75°	118	125
85°	32	36
90°	0	



TEST NUMBER: P582546  
CATALOG NUMBER: HCC6W40D010BZ-HM63040940-61NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2709.2
2.5°	2694.8
5°	2686.1
7.5°	2654.5
10°	2596.8
12.5°	2544.9
15°	2487.2
17.5°	2415.2
20°	2328.8
22.5°	2230.8
25°	2124.1
27.5°	2000.3
30°	1844.6
32.5°	1657.2
35°	1412.3
37.5°	1141.3
40°	890.6
42.5°	691.7
45°	564.9
47.5°	481.3
50°	420.8
52.5°	371.8
55°	328.6
57.5°	296.9
60°	270.9
62.5°	244.9
65°	216.2
67.5°	190.2
70°	164.3
72.5°	141.3
75°	118.2
77.5°	95.1
80°	72.0
82.5°	51.8
85°	31.7
87.5°	14.4
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)