

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: P582454

Luminaire Tested: **HCC6W40D010BZ-HM63040835-61NDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010BZ-HM63040835-61NDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

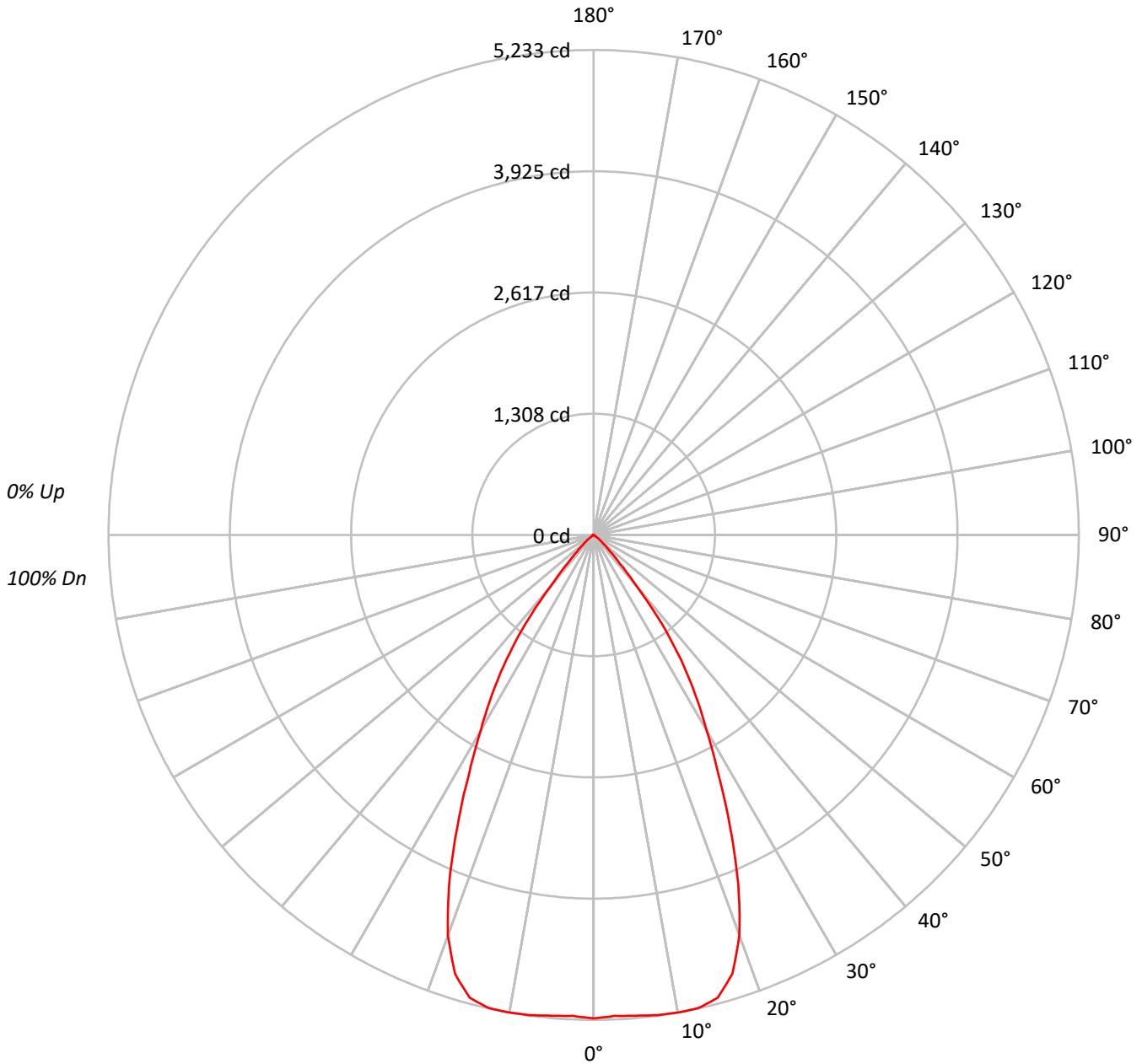
Lumens per Lamp: N/A  
Luminaire Lumens: 4789.2 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582454  
CATALOG NUMBER: HCC6W40D010BZ-HM63040835-61NDC

### Luminous Intensity Polar Plot





TEST NUMBER: P582454

CATALOG NUMBER: HCC6W40D010BZ-HM63040835-61NDC

**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			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76			
5	93	85	79	75	91	84	78	75	82	77	74	80	76	73	79	75	73	71			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55			
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52			

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

	0°
0°	286008
5°	286578
10°	291294
15°	293418
20°	268217
25°	210762
30°	154271
35°	109439
40°	51761
45°	19746
50°	8853
55°	2409
60°	1042
65°	817
70°	513
75°	678
80°	0
85°	0



TEST NUMBER: P582454  
 CATALOG NUMBER: HCC6W40D010BZ-HM63040835-61NDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	498.2	10.4
10°-20°	1428.9	29.8
20°-30°	1589.4	33.2
30°-40°	992.9	20.7
40°-50°	235.9	4.9
50°-60°	33.8	0.7
60°-70°	7.0	0.1
70°-80°	3.0	0.1
80°-90°	0.0	0.0
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°	3516.5	73.4
0°-40°	4509.5	94.2
0°-60°	4779.2	99.8
0°-90°	4789.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4789.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5217	
5°	5208	498
15°	5170	1429
25°	3484	1589
35°	1635	993
45°	255	236
55°	25	34
65°	6	7
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P582454  
CATALOG NUMBER: HCC6W40D010BZ-HM63040835-61NDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5217.2
2.5°	5195.1
5°	5207.7
7.5°	5226.5
10°	5232.9
12.5°	5229.7
15°	5170.0
17.5°	4968.7
20°	4597.6
22.5°	4075.6
25°	3484.4
27.5°	2918.3
30°	2437.1
32.5°	2037.9
35°	1635.3
37.5°	1201.3
40°	723.3
42.5°	418.3
45°	254.7
47.5°	163.6
50°	103.8
52.5°	59.8
55°	25.2
57.5°	12.5
60°	9.5
62.5°	9.5
65°	6.3
67.5°	6.3
70°	3.2
72.5°	3.2
75°	3.2
77.5°	3.2
80°	0.0
82.5°	0.0
85°	0.0
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)