

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: P581863

Luminaire Tested: **HCC6W20D010BZ-HM60525830-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581863  
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: HCC6W20D010BZ-HM60525830-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

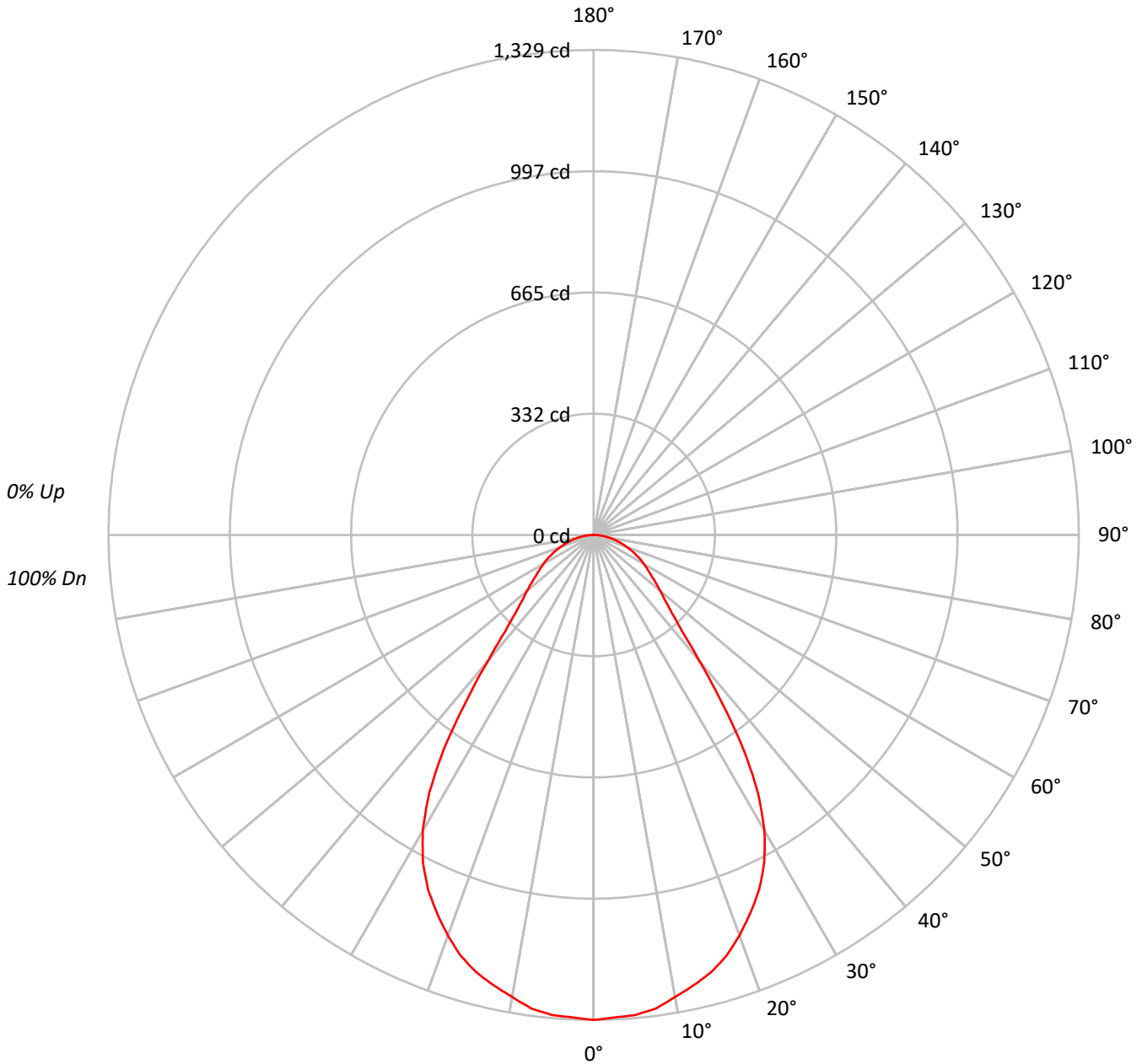
Lumens per Lamp: N/A  
Luminaire Lumens: 2038.4 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P581863  
CATALOG NUMBER: HCC6W20D010BZ-HM60525830-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581863  
 CATALOG NUMBER: HCC6W20D010BZ-HM60525830-61PSMDW

**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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

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

	0°
0°	72856
5°	72661
10°	71575
15°	70443
20°	68128
25°	64885
30°	59250
35°	47703
40°	32146
45°	23444
50°	20264
55°	18303
60°	17367
65°	16435
70°	15451
75°	14636
80°	13638
85°	12706



TEST NUMBER: P581863  
 CATALOG NUMBER: HCC6W20D010BZ-HM60525830-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	6.1
10°-20°	348.6	17.1
20°-30°	489.7	24.0
30°-40°	435.9	21.4
40°-50°	243.6	12.0
50°-60°	173.6	8.5
60°-70°	126.3	6.2
70°-80°	73.1	3.6
80°-90°	22.7	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°	963.2	47.3
0°-40°	1399.2	68.6
0°-60°	1816.3	89.1
0°-90°	2038.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1329	
5°	1320	125
15°	1241	349
25°	1073	490
35°	713	436
45°	302	244
55°	192	174
65°	127	126
75°	69	73
85°	20	23
90°	0	



TEST NUMBER: P581863  
CATALOG NUMBER: HCC6W20D010BZ-HM60525830-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1329.0
2.5°	1323.3
5°	1320.4
7.5°	1308.8
10°	1285.8
12.5°	1264.2
15°	1241.2
17.5°	1209.6
20°	1167.8
22.5°	1121.7
25°	1072.7
27.5°	1012.2
30°	936.0
32.5°	838.1
35°	712.8
37.5°	571.6
40°	449.2
42.5°	358.6
45°	302.4
47.5°	264.9
50°	237.6
52.5°	213.1
55°	191.5
57.5°	174.3
60°	158.4
62.5°	144.0
65°	126.7
67.5°	112.3
70°	96.4
72.5°	82.0
75°	69.1
77.5°	56.2
80°	43.2
82.5°	31.7
85°	20.2
87.5°	10.1
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)