

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: P581917

Luminaire Tested: **HCC6S20D010BZ-HM60525927-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581917  
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: HCC6S20D010BZ-HM60525927-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

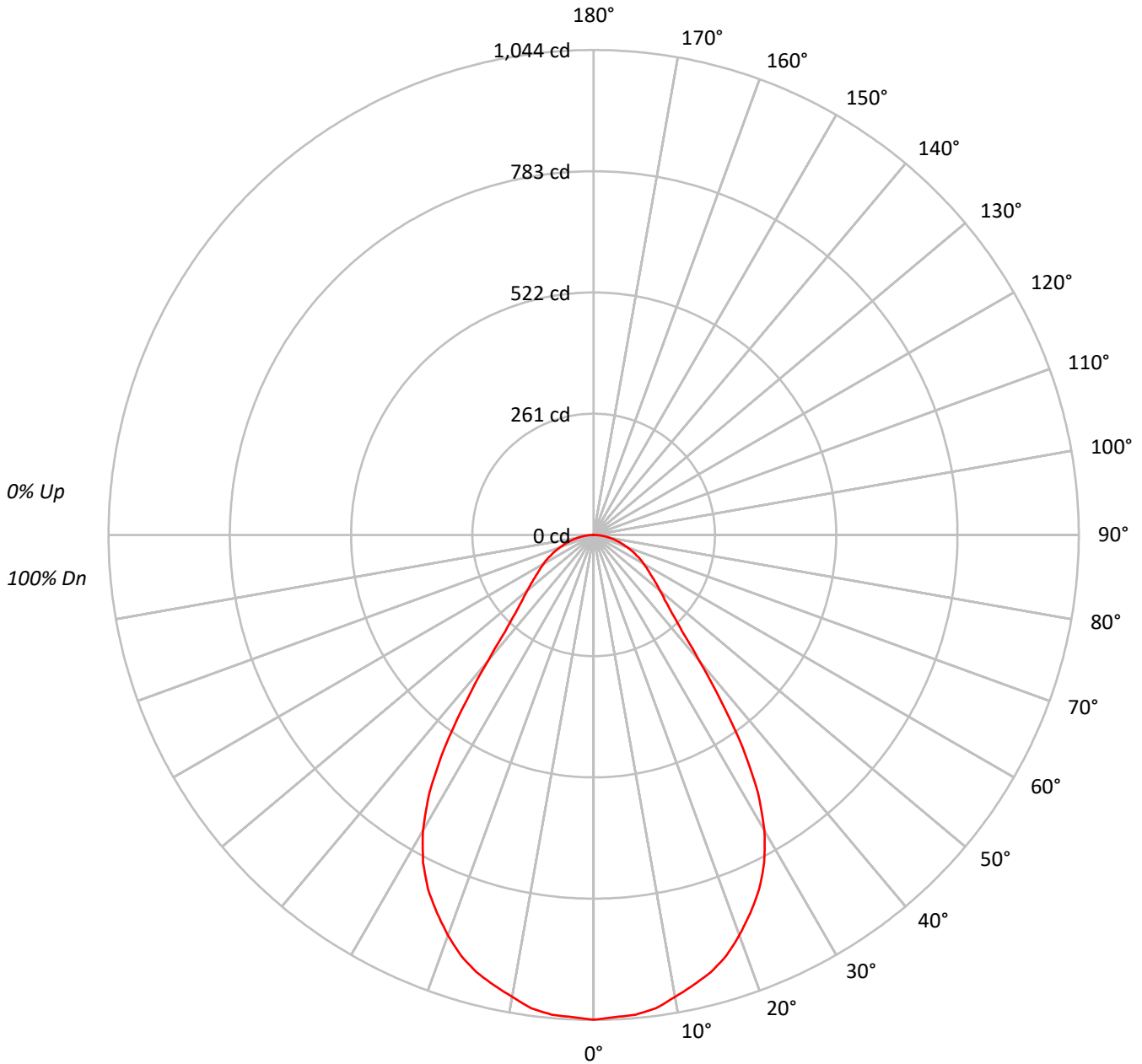
Lumens per Lamp: N/A  
Luminaire Lumens: 1600.7 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P581917  
CATALOG NUMBER: HCC6S20D010BZ-HM60525927-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581917

CATALOG NUMBER: HCC6S20D010BZ-HM60525927-61PSMDW

**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°	57210
5°	57055
10°	56206
15°	55312
20°	53502
25°	50955
30°	46526
35°	37457
40°	25247
45°	18413
50°	15914
55°	14365
60°	13639
65°	12907
70°	12149
75°	11501
80°	10702
85°	10001



TEST NUMBER: P581917  
 CATALOG NUMBER: HCC6S20D010BZ-HM60525927-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	6.1
10°-20°	273.7	17.1
20°-30°	384.6	24.0
30°-40°	342.3	21.4
40°-50°	191.3	12.0
50°-60°	136.3	8.5
60°-70°	99.1	6.2
70°-80°	57.4	3.6
80°-90°	17.9	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°	756.4	47.3
0°-40°	1098.7	68.6
0°-60°	1426.3	89.1
0°-90°	1600.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1044	
5°	1037	98
15°	975	274
25°	842	385
35°	560	342
45°	238	191
55°	150	136
65°	100	99
75°	54	57
85°	16	18
90°	0	



TEST NUMBER: P581917  
CATALOG NUMBER: HCC6S20D010BZ-HM60525927-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1043.6
2.5°	1039.1
5°	1036.8
7.5°	1027.9
10°	1009.7
12.5°	992.7
15°	974.6
17.5°	949.8
20°	917.1
22.5°	880.8
25°	842.4
27.5°	794.9
30°	735.0
32.5°	658.0
35°	559.7
37.5°	448.9
40°	352.8
42.5°	281.6
45°	237.5
47.5°	208.0
50°	186.6
52.5°	167.3
55°	150.3
57.5°	136.9
60°	124.4
62.5°	113.1
65°	99.5
67.5°	88.1
70°	75.8
72.5°	64.5
75°	54.3
77.5°	44.1
80°	33.9
82.5°	24.9
85°	15.9
87.5°	7.9
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)