

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: P581925

Luminaire Tested: **HCC6W20D010BZ-HM60525927-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010BZ-HM60525927-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

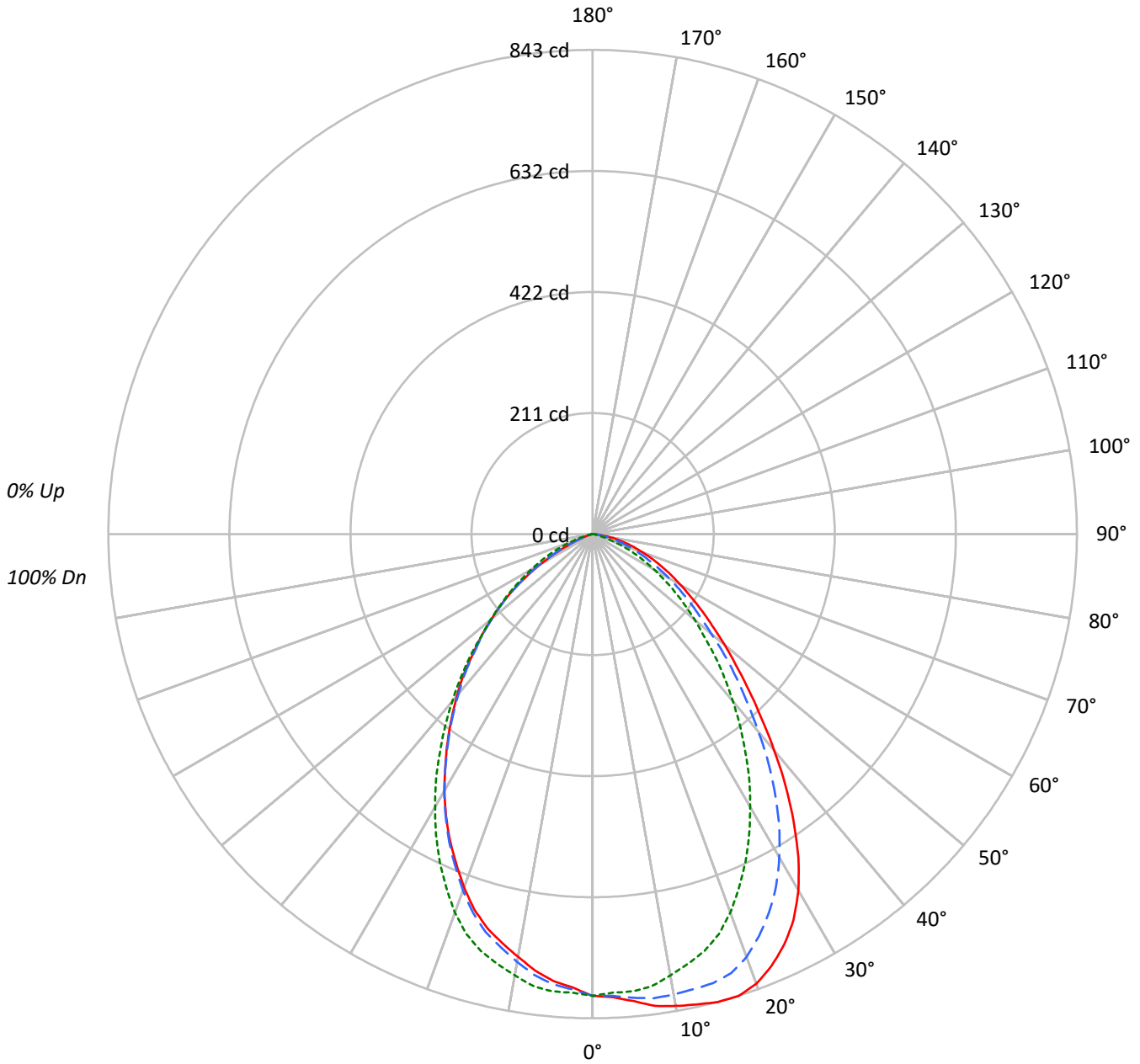
Lumens per Lamp: N/A  
Luminaire Lumens: 1432.2 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P581925  
CATALOG NUMBER: HCC6W20D010BZ-HM60525927-61WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P581925

CATALOG NUMBER: HCC6W20D010BZ-HM60525927-61WWBB

**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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89				
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78				
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69				
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61				
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49				
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44				
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40				
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37				
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34				

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

	0°	90°	180°
0°	44064	44064	44064
5°	44910	43980	42984
10°	46436	43419	41594
15°	47861	42662	40290
20°	48602	40889	38182
25°	47725	38083	35554
30°	45361	34708	32632
35°	40776	31019	29426
40°	35187	27179	26292
45°	29794	23398	22785
50°	25551	19761	19564
55°	22145	16630	15990
60°	19330	13519	11403
65°	17006	10403	6304
70°	14666	6876	3093
75°	12454	3368	1207
80°	9629	1421	726
85°	5724	692	692



TEST NUMBER: P581925

CATALOG NUMBER: HCC6W20D010BZ-HM60525927-61WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	5.3
10°-20°	214.5	15.0
20°-30°	302.0	21.1
30°-40°	308.6	21.5
40°-50°	248.8	17.4
50°-60°	166.9	11.7
60°-70°	84.4	5.9
70°-80°	27.0	1.9
80°-90°	4.2	0.3
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°	592.4	41.4
0°-40°	901.0	62.9
0°-60°	1316.6	91.9
0°-90°	1432.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	804	804	804	804	804	
5°	816	810	799	787	781	79
15°	843	809	752	718	710	238
25°	789	727	630	591	588	361
35°	609	554	464	438	440	379
45°	384	354	302	292	294	299
55°	232	206	174	166	167	209
65°	131	108	80	53	49	131
75°	59	42	16	6	6	63
85°	9	4	1	1	1	12
90°	0	0	0	0	0	



TEST NUMBER: P581925

CATALOG NUMBER: HCC6W20D010BZ-HM60525927-61WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8	803.8
2.5°	807.1	806.0	804.9	802.6	799.2	795.8	793.6	791.3	790.2
5°	816.1	813.9	810.5	806.0	799.2	791.3	786.8	782.2	781.1
7.5°	828.6	824.0	815.0	804.9	793.6	782.2	774.3	769.8	766.4
10°	834.2	826.3	813.9	797.0	780.0	766.4	756.3	749.5	747.2
12.5°	838.8	829.7	811.7	789.0	766.4	748.3	737.0	731.4	729.1
15°	843.3	834.2	809.4	780.0	751.7	730.2	717.8	712.2	709.9
17.5°	843.3	830.8	801.5	764.2	730.2	704.3	691.8	686.1	685.0
20°	833.1	819.5	783.4	739.3	700.9	671.4	660.2	656.8	654.5
22.5°	813.9	798.1	757.4	707.7	665.9	637.5	625.1	622.8	620.5
25°	789.0	773.2	726.8	673.7	629.6	601.4	591.2	588.9	587.8
27.5°	757.4	740.4	691.8	637.5	590.1	563.0	553.9	553.9	552.8
30°	716.6	697.5	650.0	595.7	548.3	523.3	516.6	516.6	515.5
32.5°	666.9	647.7	604.8	552.8	507.6	481.5	475.9	478.1	477.0
35°	609.3	593.5	553.9	503.1	463.5	439.7	437.5	439.7	439.7
37.5°	551.7	536.9	503.1	459.0	421.6	400.2	400.2	403.6	402.4
40°	491.7	480.4	448.8	410.4	379.8	365.2	362.9	366.3	367.4
42.5°	435.2	426.1	399.0	367.4	340.2	325.5	328.9	331.2	332.3
45°	384.3	375.2	353.8	321.0	301.8	291.6	291.6	295.0	293.9
47.5°	339.1	332.3	310.9	279.2	262.3	257.8	260.0	262.3	262.3
50°	299.6	289.4	269.1	244.2	231.7	226.0	228.3	229.4	229.4
52.5°	262.3	255.5	235.1	212.6	201.2	197.8	197.8	199.0	199.0
55°	231.7	223.8	205.8	183.1	174.0	169.6	166.2	165.1	167.3
57.5°	202.4	195.6	178.6	157.1	147.0	142.4	135.6	133.4	135.6
60°	176.3	170.7	153.7	133.4	123.3	114.2	106.3	101.7	104.0
62.5°	153.7	147.0	130.0	113.1	101.7	91.5	79.1	72.4	75.7
65°	131.1	125.4	108.5	91.5	80.2	67.9	53.1	48.6	48.6
67.5°	110.8	105.1	89.3	74.6	61.1	46.3	32.7	31.6	32.7
70°	91.5	85.9	72.4	57.7	42.9	28.2	19.3	19.3	19.3
72.5°	75.7	69.0	56.5	41.8	27.1	14.7	10.2	11.3	11.3
75°	58.8	53.1	41.8	28.2	15.9	6.8	5.7	5.7	5.7
77.5°	44.1	39.5	29.3	18.1	7.9	2.3	2.3	2.3	2.3
80°	30.5	25.9	19.3	11.3	4.5	2.3	2.3	2.3	2.3
82.5°	18.1	15.9	11.3	5.7	2.3	1.1	1.1	1.1	1.1
85°	9.1	7.9	4.5	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	2.3	2.3	1.1	1.1	0.0	1.1	1.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°    - - 45°-225°    - - - - 90°-270°

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)