

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: P593156

Luminaire Tested: **HCC6W20D010BZ-HM60525950-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010BZ-HM60525950-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

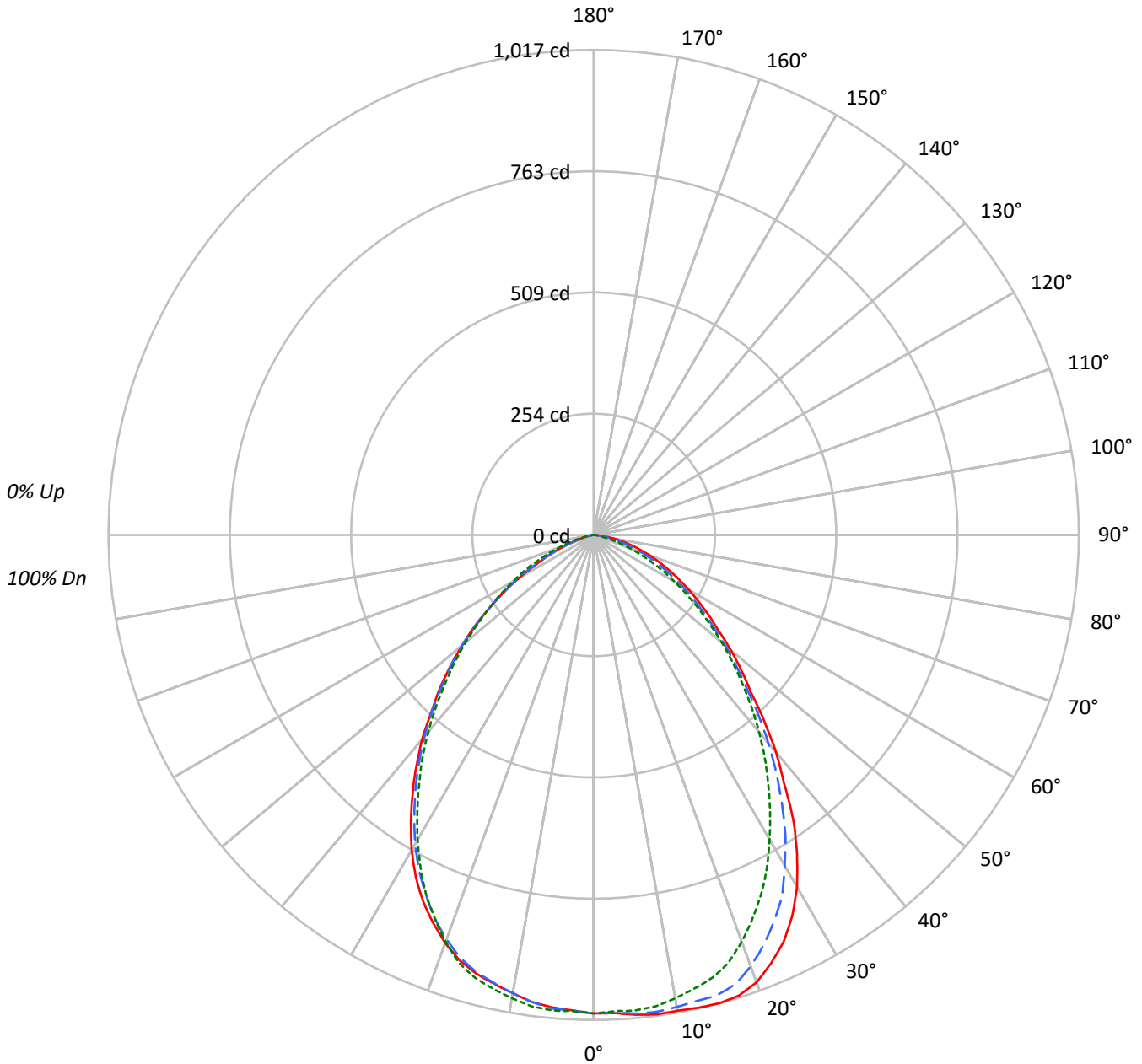
Lumens per Lamp: N/A  
Luminaire Lumens: 1966.6 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): 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: P593156  
CATALOG NUMBER: HCC6W20D010BZ-HM60525950-61RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593156

CATALOG NUMBER: HCC6W20D010BZ-HM60525950-61RWWH

**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	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	55018	55018	55018
5°	55591	55085	54721
10°	56378	54914	54330
15°	57707	54569	54047
20°	58239	52942	53105
25°	56961	50283	51233
30°	53958	46710	48286
35°	48854	42697	44276
40°	42544	38594	40004
45°	36105	34159	35384
50°	31973	29841	30617
55°	28157	25519	25395
60°	25239	21490	19746
65°	22519	17239	14165
70°	19811	12438	8864
75°	16733	7519	5020
80°	12880	3315	2084
85°	7422	881	881



TEST NUMBER: P593156  
 CATALOG NUMBER: HCC6W20D010BZ-HM60525950-61RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	4.8
10°-20°	273.8	13.9
20°-30°	395.8	20.1
30°-40°	416.5	21.2
40°-50°	350.1	17.8
50°-60°	245.7	12.5
60°-70°	135.2	6.9
70°-80°	48.0	2.4
80°-90°	6.3	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°	764.8	38.9
0°-40°	1181.3	60.1
0°-60°	1777.1	90.4
0°-90°	1966.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1004	1004	1004	1004	1004	
5°	1010	1008	1001	997	994	97
15°	1017	1000	962	950	952	287
25°	942	894	831	833	847	431
35°	730	688	638	651	662	452
45°	466	452	441	451	456	365
55°	295	279	267	267	266	265
65°	174	155	133	109	109	173
75°	79	63	36	24	24	85
85°	12	7	1	1	1	16
90°	0	0	0	0	0	

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



TEST NUMBER: P593156

CATALOG NUMBER: HCC6W20D010BZ-HM60525950-61RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6
2.5°	1003.6	1003.6	1002.3	1002.3	999.6	999.6	998.3	998.3	998.3
5°	1010.2	1010.2	1007.6	1003.6	1001.0	997.0	997.0	995.7	994.4
7.5°	1014.1	1012.8	1008.8	1003.6	997.0	990.5	987.9	989.1	987.9
10°	1012.8	1010.2	1004.9	994.4	986.5	977.3	976.0	974.6	976.0
12.5°	1015.4	1011.5	1001.0	987.9	974.6	964.2	962.8	962.8	964.2
15°	1016.8	1012.8	999.6	979.9	961.5	951.0	949.7	951.0	952.3
17.5°	1012.8	1007.6	987.9	961.5	940.5	930.0	930.0	932.6	935.2
20°	998.3	990.5	962.8	931.2	907.5	899.7	902.3	907.5	910.3
22.5°	972.0	962.8	931.2	895.7	870.7	864.1	870.7	877.3	880.0
25°	941.7	931.2	894.4	857.6	831.3	823.4	832.6	843.2	847.0
27.5°	901.0	889.2	855.0	812.9	786.5	782.7	793.1	805.0	807.6
30°	852.4	839.2	801.0	761.6	737.9	736.6	748.5	759.0	762.8
32.5°	793.1	781.3	748.5	708.9	688.0	688.0	699.7	708.9	712.9
35°	730.0	716.8	688.0	655.0	638.0	639.2	651.1	657.7	661.6
37.5°	655.0	651.1	628.7	601.1	589.3	591.9	601.1	606.4	610.3
40°	594.5	584.1	569.6	547.1	539.3	541.9	551.1	556.4	559.0
42.5°	528.8	522.2	510.3	494.6	489.3	493.2	501.1	505.1	503.7
45°	465.7	464.3	452.5	443.2	440.6	445.9	451.2	455.1	456.4
47.5°	419.5	414.3	403.8	397.2	394.6	399.8	405.2	407.8	407.8
50°	374.9	369.6	359.0	352.5	349.9	355.2	359.0	361.8	359.0
52.5°	330.2	324.8	315.7	307.8	306.5	309.1	310.4	311.7	314.4
55°	294.6	289.4	278.8	269.7	267.0	268.3	267.0	267.0	265.7
57.5°	260.5	255.2	244.6	234.1	230.2	228.9	224.9	223.7	222.3
60°	230.2	223.7	213.1	201.2	196.0	190.7	184.1	180.1	180.1
62.5°	201.2	194.6	182.9	172.3	164.4	155.2	144.7	139.5	139.5
65°	173.6	168.4	155.2	143.3	132.9	121.0	109.2	106.5	109.2
67.5°	147.3	142.1	128.9	117.0	103.9	89.4	79.0	79.0	81.6
70°	123.6	118.4	106.5	92.1	77.6	63.1	55.3	55.3	55.3
72.5°	101.3	96.0	82.8	69.7	55.3	40.8	36.8	38.2	36.8
75°	79.0	75.0	63.1	48.7	35.5	25.0	23.7	22.3	23.7
77.5°	59.1	55.3	44.8	31.6	19.7	14.5	13.1	13.1	13.1
80°	40.8	36.8	28.9	18.5	10.5	6.6	6.6	6.6	6.6
82.5°	25.0	21.1	15.7	9.2	4.0	4.0	4.0	4.0	4.0
85°	11.8	9.2	6.6	2.6	1.4	1.4	1.4	1.4	1.4
87.5°	2.6	2.6	1.4	1.4	0.0	1.4	1.4	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)