

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: P593011

Luminaire Tested: **HCC6W05D010MW-HM60525950-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W05D010MW-HM60525950-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

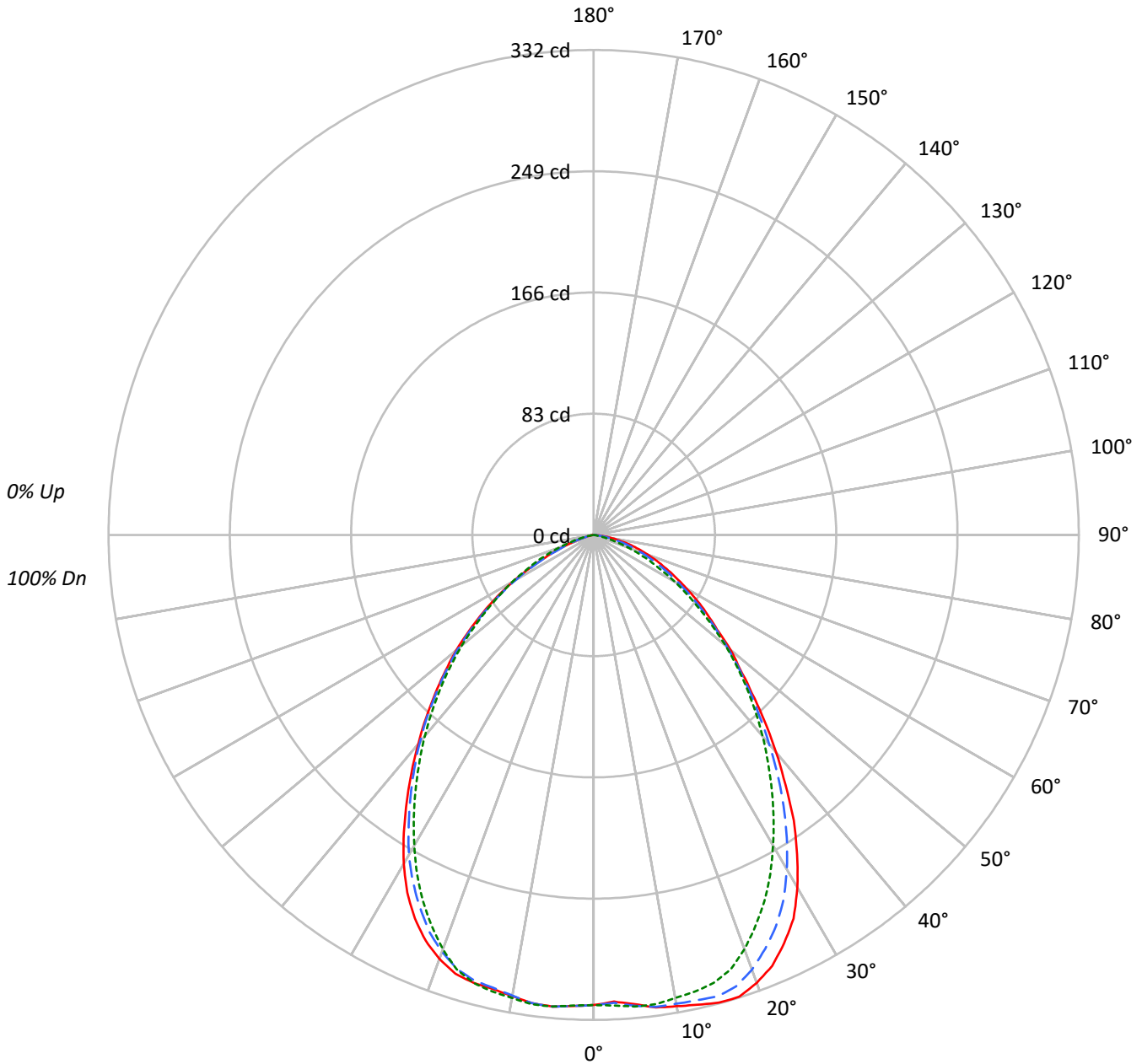
Lumens per Lamp: N/A  
Luminaire Lumens: 650.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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: P593011  
CATALOG NUMBER: HCC6W05D010MW-HM60525950-61RWWC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593011

CATALOG NUMBER: HCC6W05D010MW-HM60525950-61RWWC

**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	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	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	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	17647	17647	17647
5°	17742	17835	17835
10°	18236	17919	17846
15°	18814	18019	18019
20°	19036	17607	18015
25°	18654	16731	17517
30°	17648	15540	16458
35°	15975	14214	14917
40°	13890	12867	13361
45°	11869	11466	11869
50°	10422	10038	10456
55°	9089	8468	8803
60°	8037	7028	6940
65°	7121	5539	4748
70°	6283	3911	2869
75°	5359	2224	1398
80°	4009	663	442
85°	2201	314	314



TEST NUMBER: P593011

CATALOG NUMBER: HCC6W05D010MW-HM60525950-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.9	4.8
10°-20°	90.3	13.9
20°-30°	132.0	20.3
30°-40°	138.4	21.3
40°-50°	116.6	17.9
50°-60°	81.7	12.6
60°-70°	43.8	6.7
70°-80°	14.7	2.3
80°-90°	1.6	0.2
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°	253.2	39.0
0°-40°	391.6	60.2
0°-60°	589.9	90.7
0°-90°	650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	650.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	322	322	322	322	322	
5°	322	324	324	324	324	31
15°	332	327	318	316	318	94
25°	308	295	277	281	290	141
35°	239	226	212	218	223	148
45°	153	150	148	152	153	119
55°	95	92	89	90	92	86
65°	55	50	43	35	37	55
75°	25	20	10	7	7	27
85°	4	2	0	0	0	5
90°	0	0	0	0	0	

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



TEST NUMBER: P593011

CATALOG NUMBER: HCC6W05D010MW-HM60525950-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9
2.5°	319.8	319.8	320.6	321.5	322.4	322.4	322.8	323.3	322.8
5°	322.4	322.4	323.6	324.1	324.1	323.6	324.1	324.1	324.1
7.5°	326.3	325.4	325.9	325.0	324.1	323.6	323.3	323.3	323.3
10°	327.6	326.7	325.9	324.1	321.9	320.6	320.2	320.6	320.6
12.5°	329.4	328.5	326.3	322.8	320.2	318.0	317.5	318.4	318.4
15°	331.5	330.6	327.1	321.5	317.5	315.4	315.8	316.7	317.5
17.5°	331.5	329.8	324.1	316.7	311.9	309.7	311.4	313.7	314.9
20°	326.3	324.5	316.7	307.6	301.8	300.6	303.6	307.6	308.8
22.5°	319.3	315.8	306.7	295.7	289.6	289.6	294.0	298.8	300.6
25°	308.4	305.8	295.4	282.7	276.6	276.2	281.4	287.9	289.6
27.5°	296.2	292.7	281.4	268.3	261.7	262.2	267.8	274.4	276.2
30°	278.8	274.4	264.3	251.7	245.5	247.4	253.0	257.9	260.0
32.5°	259.1	255.2	246.0	234.2	229.1	230.7	235.6	239.9	241.7
35°	238.7	234.2	226.5	215.9	212.4	214.1	218.5	222.0	222.9
37.5°	215.5	212.4	206.8	198.5	195.8	198.1	201.6	203.7	204.6
40°	194.1	191.5	186.7	180.6	179.8	181.5	185.0	186.2	186.7
42.5°	173.2	171.0	167.9	163.6	163.6	165.3	168.4	169.3	169.7
45°	153.1	151.8	150.5	147.0	147.9	150.1	151.8	153.1	153.1
47.5°	135.7	136.1	134.4	131.8	132.7	134.8	136.1	137.4	137.4
50°	122.2	120.8	119.1	116.5	117.7	119.6	121.2	122.2	122.6
52.5°	106.4	106.0	104.8	101.6	102.5	103.4	105.1	106.4	106.9
55°	95.1	93.8	92.1	88.6	88.6	89.4	90.3	91.2	92.1
57.5°	84.2	82.8	80.2	76.4	75.9	75.9	75.5	76.4	77.6
60°	73.3	72.9	68.9	65.4	64.1	62.8	61.0	61.5	63.3
62.5°	63.7	62.8	59.3	54.9	52.3	50.2	48.0	47.6	49.3
65°	54.9	54.1	50.2	45.8	42.7	38.9	35.4	35.4	36.6
67.5°	47.1	45.3	41.9	37.1	33.1	28.4	24.9	25.8	26.2
70°	39.2	38.0	34.0	29.3	24.4	19.7	17.4	17.9	17.9
72.5°	32.3	30.5	26.6	21.8	17.1	12.7	11.8	11.3	11.3
75°	25.3	23.5	19.7	14.8	10.5	7.5	6.6	6.6	6.6
77.5°	18.3	17.1	13.6	9.2	5.6	3.5	3.1	2.6	2.6
80°	12.7	11.3	8.2	4.7	2.1	1.4	1.4	1.4	1.4
82.5°	7.5	6.1	4.0	2.1	0.9	0.5	0.5	0.5	0.5
85°	3.5	2.6	1.7	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	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)