

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: P593335

Luminaire Tested: **HCC6W45D010BZ-HM64560950-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593335  
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: HCC6W45D010BZ-HM64560950-61RWWC  
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**

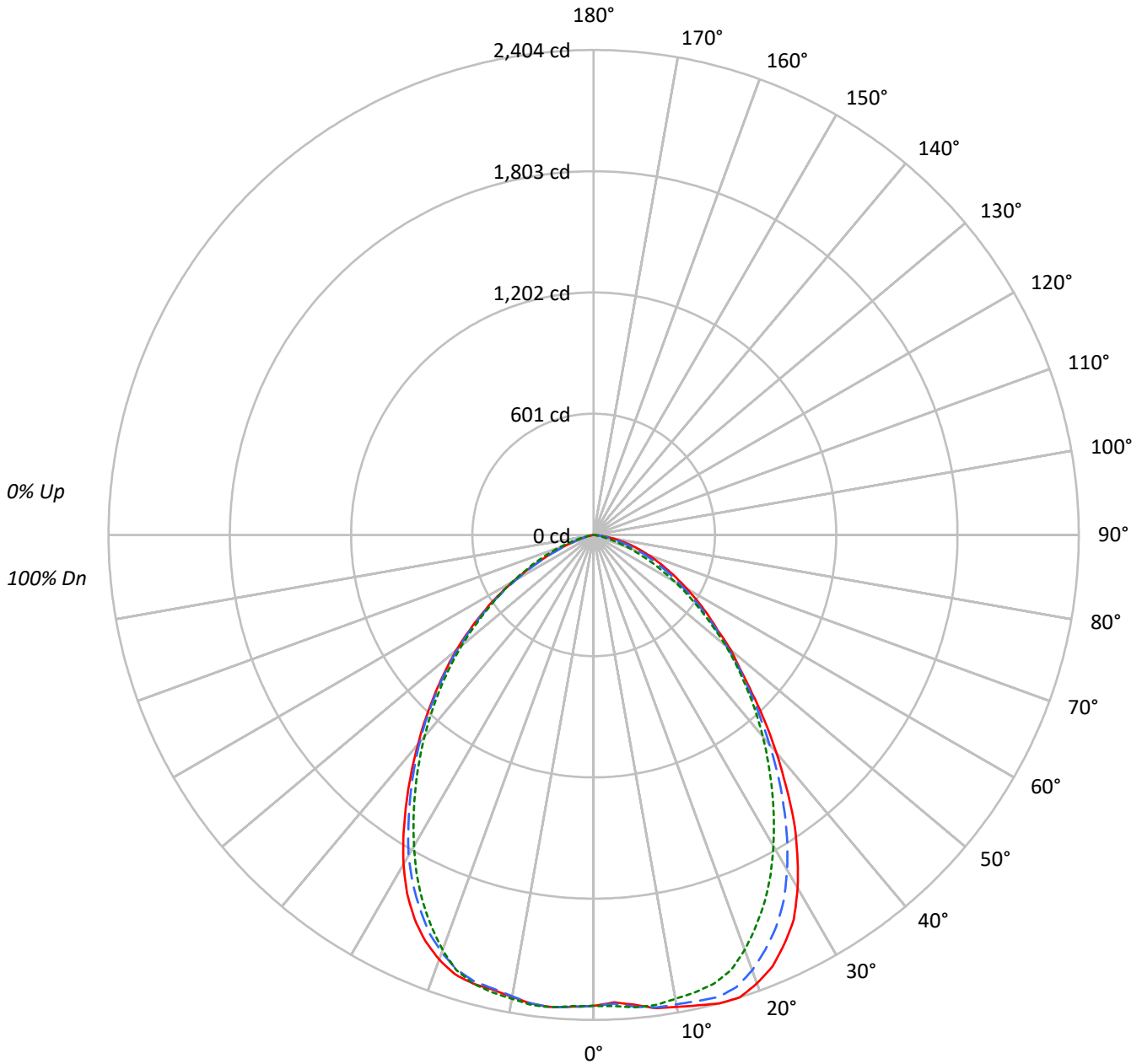
Lumens per Lamp: N/A  
Luminaire Lumens: 4713.5 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P593335  
CATALOG NUMBER: HCC6W45D010BZ-HM64560950-61RWWC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593335

CATALOG NUMBER: HCC6W45D010BZ-HM64560950-61RWWC

**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	60								
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°	127989	127989	127989
5°	128654	129347	129347
10°	132251	129963	129434
15°	136454	130710	130710
20°	138046	127714	130666
25°	135292	121320	127060
30°	127963	112745	119354
35°	115804	103102	108181
40°	100739	93268	96896
45°	86086	83148	86086
50°	75537	72850	75810
55°	65909	61379	63807
60°	58274	50994	50303
65°	51705	40212	34465
70°	45633	28386	20789
75°	38867	16076	10061
80°	28949	4988	2999
85°	15913	2013	2013



TEST NUMBER: P593335  
 CATALOG NUMBER: HCC6W45D010BZ-HM64560950-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.0	4.8
10°-20°	655.2	13.9
20°-30°	957.0	20.3
30°-40°	1003.6	21.3
40°-50°	845.5	17.9
50°-60°	592.4	12.6
60°-70°	317.6	6.7
70°-80°	106.5	2.3
80°-90°	11.6	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°	1836.2	39.0
0°-40°	2839.8	60.2
0°-60°	4277.8	90.8
0°-90°	4713.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4713.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2335	2335	2335	2335	2335	
5°	2338	2347	2350	2350	2350	225
15°	2404	2373	2303	2290	2303	678
25°	2237	2142	2006	2040	2101	1025
35°	1730	1642	1541	1585	1616	1074
45°	1110	1092	1072	1101	1110	865
55°	690	668	642	655	668	621
65°	399	364	310	256	266	398
75°	184	142	76	48	48	195
85°	25	13	3	3	3	35
90°	0	0	0	0	0	

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



TEST NUMBER: P593335

CATALOG NUMBER: HCC6W45D010BZ-HM64560950-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2334.7	2334.7	2334.7	2334.7	2334.7	2334.7	2334.7	2334.7	2334.7
2.5°	2318.9	2318.9	2325.2	2331.6	2337.9	2337.9	2341.1	2344.2	2341.1
5°	2337.9	2337.9	2347.3	2350.5	2350.5	2347.3	2350.5	2350.5	2350.5
7.5°	2366.3	2360.0	2363.1	2356.8	2350.5	2347.3	2344.2	2344.2	2344.2
10°	2375.8	2369.5	2363.1	2350.5	2334.7	2325.2	2322.1	2325.2	2325.2
12.5°	2388.5	2382.1	2366.3	2341.1	2322.1	2306.2	2303.1	2309.4	2309.4
15°	2404.3	2398.0	2372.6	2331.6	2303.1	2287.2	2290.4	2296.7	2303.1
17.5°	2404.3	2391.6	2350.5	2296.7	2261.9	2246.1	2258.7	2274.6	2284.1
20°	2366.3	2353.6	2296.7	2230.3	2189.2	2179.7	2201.8	2230.3	2239.8
22.5°	2315.7	2290.4	2224.0	2144.8	2100.6	2100.6	2132.3	2167.0	2179.7
25°	2236.7	2217.7	2141.7	2049.9	2005.7	2002.5	2040.4	2087.9	2100.6
27.5°	2148.0	2122.8	2040.4	1945.5	1898.1	1901.3	1942.4	1989.9	2002.5
30°	2021.5	1989.9	1917.2	1825.3	1781.1	1793.8	1834.8	1869.6	1885.5
32.5°	1879.1	1850.6	1784.3	1698.9	1660.9	1673.5	1708.4	1739.9	1752.6
35°	1730.4	1698.9	1641.8	1566.0	1540.6	1553.3	1585.0	1610.3	1616.5
37.5°	1562.8	1540.6	1499.6	1439.4	1420.4	1436.2	1461.6	1477.4	1483.7
40°	1407.7	1388.8	1354.0	1309.7	1303.3	1316.0	1341.3	1350.8	1354.0
42.5°	1255.9	1240.1	1217.9	1186.4	1186.4	1198.9	1221.1	1227.4	1230.6
45°	1110.4	1100.9	1091.5	1066.1	1072.5	1088.3	1100.9	1110.4	1110.4
47.5°	983.9	987.1	974.4	955.4	961.7	977.6	987.1	996.5	996.5
50°	885.7	876.3	863.7	844.7	854.2	866.8	879.5	885.7	888.9
52.5°	772.0	768.8	759.3	737.1	743.4	749.8	762.4	772.0	775.1
55°	689.6	680.1	667.6	642.2	642.2	648.6	654.9	661.2	667.6
57.5°	610.5	601.0	582.0	553.7	550.5	550.5	547.3	553.7	563.2
60°	531.5	528.3	499.8	474.5	465.1	455.6	442.9	446.1	458.8
62.5°	461.9	455.6	430.3	398.6	379.6	363.9	348.0	344.9	357.5
65°	398.6	392.3	363.9	332.2	310.0	281.5	256.3	256.3	265.7
67.5°	341.7	329.0	303.7	268.9	240.5	205.6	180.3	186.6	189.8
70°	284.7	275.2	246.8	212.0	177.1	142.4	126.6	129.7	129.7
72.5°	234.1	221.5	193.0	158.1	123.4	91.7	85.4	82.2	82.2
75°	183.5	170.8	142.4	107.6	75.9	53.7	47.5	47.5	47.5
77.5°	132.9	123.4	98.1	66.4	41.2	25.3	22.2	19.0	19.0
80°	91.7	82.2	60.1	34.8	15.8	9.5	9.5	9.5	9.5
82.5°	53.7	44.3	28.5	15.8	6.3	3.2	3.2	3.2	3.2
85°	25.3	19.0	12.7	6.3	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	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)