

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: P582916

Luminaire Tested: **HCC6W05D010BZ-HM60525840-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W05D010BZ-HM60525840-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

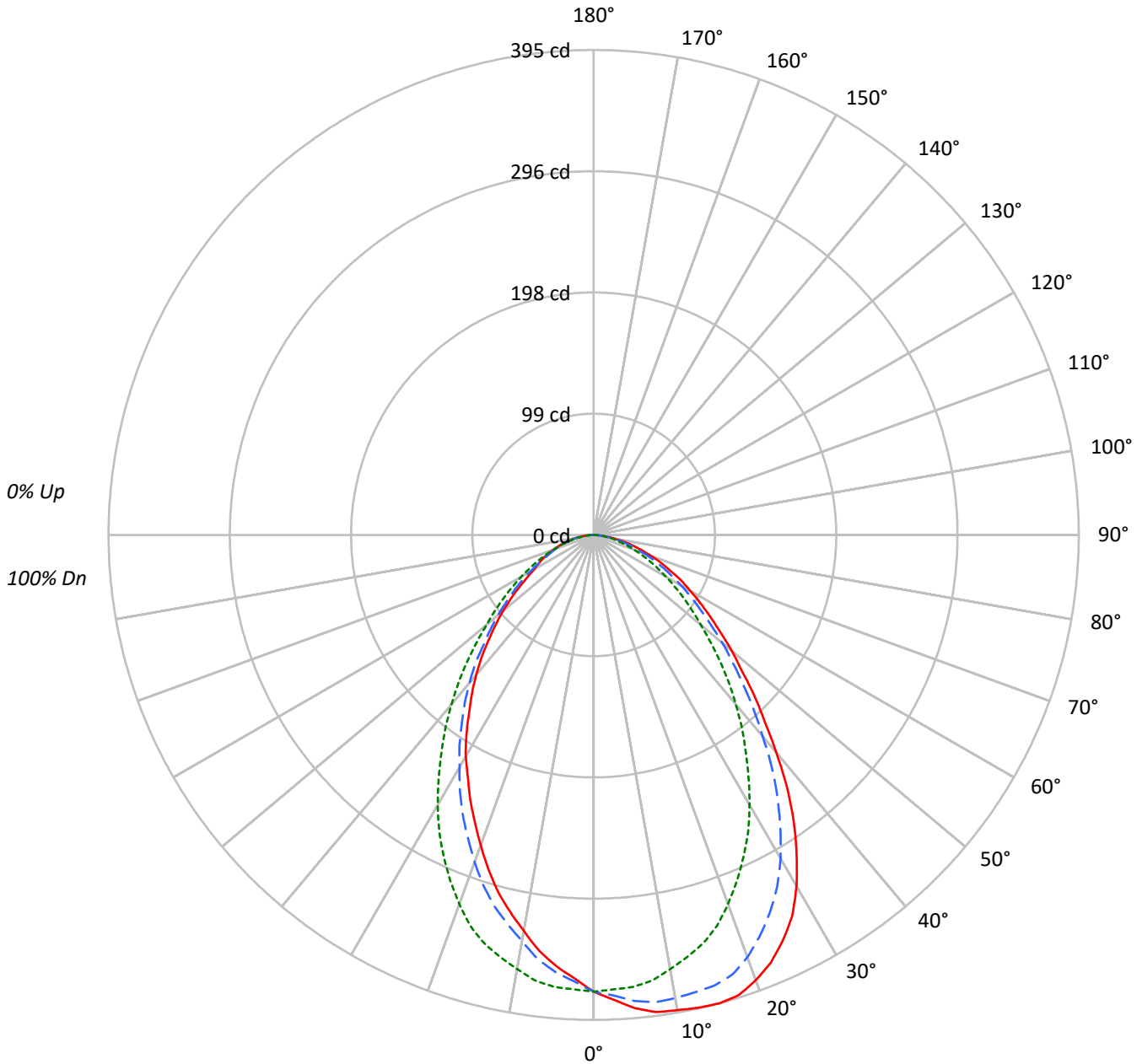
Lumens per Lamp: N/A  
Luminaire Lumens: 693.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582916  
CATALOG NUMBER: HCC6W05D010BZ-HM60525840-61WWW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582916

CATALOG NUMBER: HCC6W05D010BZ-HM60525840-61WWW

**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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

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

	0°	90°	180°
0°	20393	20393	20393
5°	21296	20333	19392
10°	21877	19984	18231
15°	22418	19546	17077
20°	22519	18662	15681
25°	22048	17469	14390
30°	20915	16066	13186
35°	18999	14442	11825
40°	16552	12867	10641
45°	14327	11257	9358
50°	12511	9697	8204
55°	11049	8525	7034
60°	9933	7467	6096
65°	8898	6499	5902
70°	7950	5546	5546
75°	6884	4660	5189
80°	5525	3946	4735
85°	3774	3459	4151



TEST NUMBER: P582916  
 CATALOG NUMBER: HCC6W05D010BZ-HM60525840-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.0	5.0
10°-20°	97.2	14.0
20°-30°	135.4	19.5
30°-40°	139.6	20.1
40°-50°	115.7	16.7
50°-60°	83.1	12.0
60°-70°	52.9	7.6
70°-80°	27.2	3.9
80°-90°	6.9	1.0
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°	267.6	38.6
0°-40°	407.1	58.8
0°-60°	605.9	87.4
0°-90°	693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	372	372	372	372	372	
5°	387	381	370	357	352	37
15°	395	380	344	313	301	111
25°	364	340	289	252	238	167
35°	284	261	216	187	177	176
45°	185	172	145	127	121	143
55°	116	106	89	79	74	104
65°	69	61	50	44	46	69
75°	32	28	22	23	24	35
85°	6	6	6	6	7	8
90°	0	0	0	0	0	



TEST NUMBER: P582916

CATALOG NUMBER: HCC6W05D010BZ-HM60525840-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	372.0	372.0	372.0	372.0	372.0	372.0	372.0	372.0	372.0
2.5°	379.0	377.5	375.5	373.5	370.5	367.0	364.0	363.0	361.5
5°	387.0	385.0	381.0	376.0	369.5	363.0	357.4	353.9	352.4
7.5°	392.0	389.5	384.0	375.5	366.0	356.5	348.5	343.4	341.5
10°	393.0	390.5	383.0	371.5	359.0	346.0	335.9	330.0	327.5
12.5°	394.5	391.0	381.5	368.0	352.0	337.0	324.4	317.0	314.4
15°	395.0	391.0	380.0	363.5	344.4	326.5	312.9	303.9	300.9
17.5°	393.0	388.5	375.5	355.5	333.9	314.9	298.9	289.4	285.3
20°	386.0	381.0	366.0	343.4	319.9	299.9	283.4	273.3	268.8
22.5°	377.0	370.5	353.5	329.4	304.9	283.9	267.4	257.3	252.8
25°	364.5	358.4	339.5	313.9	288.8	266.9	251.9	241.4	237.9
27.5°	350.0	343.0	323.4	297.9	272.3	250.3	235.8	226.3	221.8
30°	330.4	324.0	304.4	278.9	253.8	233.3	218.3	210.3	208.3
32.5°	307.4	301.9	282.8	258.9	234.8	215.8	203.3	194.8	192.8
35°	283.9	277.4	260.8	238.3	215.8	198.8	187.2	179.8	176.7
37.5°	258.3	252.3	238.3	218.3	198.3	182.3	172.2	165.8	162.7
40°	231.3	226.8	213.8	197.7	179.8	165.8	157.2	151.6	148.7
42.5°	206.2	201.8	192.8	177.7	162.7	150.2	142.7	137.6	135.1
45°	184.8	180.7	171.8	158.8	145.2	134.7	126.7	123.2	120.7
47.5°	163.2	161.3	153.2	141.1	128.7	119.7	114.1	110.2	108.1
50°	146.7	144.2	136.7	124.2	113.7	106.7	101.6	98.1	96.2
52.5°	129.7	127.1	120.1	109.6	101.1	94.6	89.6	86.7	84.6
55°	115.6	113.7	106.1	96.6	89.2	83.6	79.1	75.6	73.6
57.5°	102.6	100.7	93.7	84.6	78.1	73.1	69.0	66.1	63.6
60°	90.6	89.2	82.2	73.6	68.1	63.1	59.6	57.1	55.6
62.5°	80.1	77.1	71.1	63.6	58.5	54.6	51.1	49.6	50.5
65°	68.6	67.1	61.1	54.6	50.1	46.1	43.5	44.5	45.5
67.5°	59.1	57.1	52.1	46.1	42.0	39.1	37.5	39.6	40.0
70°	49.6	47.6	43.1	38.1	34.6	32.5	32.5	34.0	34.6
72.5°	40.6	39.1	35.0	31.1	28.6	27.0	28.0	29.0	29.5
75°	32.5	31.1	28.0	24.5	22.0	22.0	23.1	24.1	24.5
77.5°	25.1	24.1	21.0	18.5	17.5	17.5	18.5	19.0	19.5
80°	17.5	16.5	15.0	13.6	12.5	13.6	14.5	14.5	15.0
82.5°	11.5	11.0	10.1	9.0	9.0	9.5	10.1	10.5	10.5
85°	6.0	6.0	5.5	5.0	5.5	6.0	6.0	6.6	6.6
87.5°	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5
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)