

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: P581532

Luminaire Tested: **HCC4W07D010BZ-HM40525935-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W07D010BZ-HM40525935-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

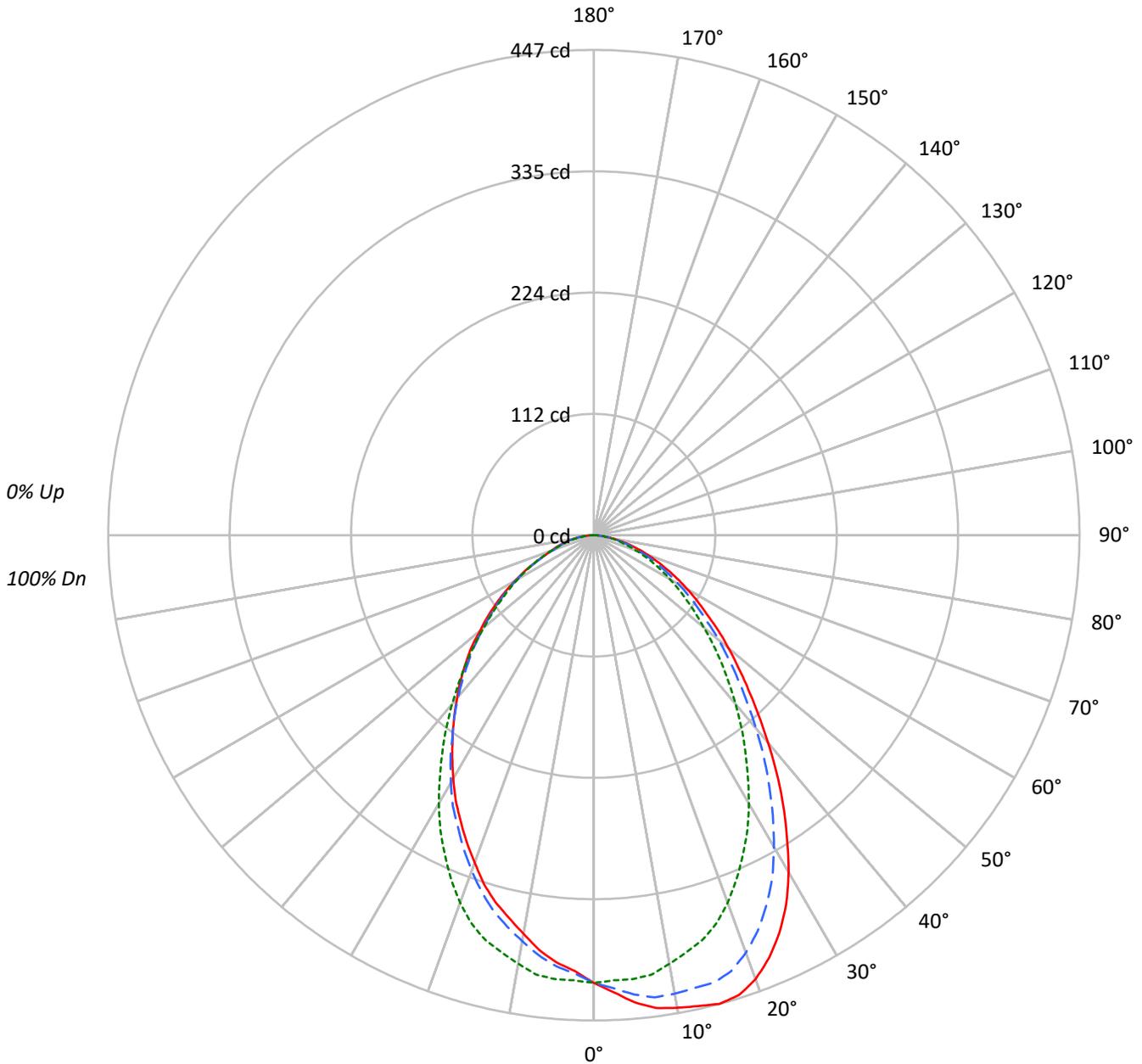
Lumens per Lamp: N/A  
Luminaire Lumens: 799.9 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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: P581532  
CATALOG NUMBER: HCC4W07D010BZ-HM40525935-41WWWB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P581532

CATALOG NUMBER: HCC4W07D010BZ-HM40525935-41WWWB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

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

	0°	90°	180°
0°	50868	50868	50868
5°	53489	50814	48908
10°	55372	50200	46680
15°	57068	49291	44681
20°	57125	47267	42109
25°	54983	44177	39495
30°	51060	40649	36874
35°	45745	36590	34121
40°	40141	32654	31527
45°	35097	28904	29079
50°	30991	25291	26212
55°	27332	22451	23569
60°	24422	19859	20623
65°	21627	17482	17482
70°	18934	14894	14894
75°	16156	12629	14154
80°	12786	11294	12786
85°	8208	9624	11888



TEST NUMBER: P581532  
 CATALOG NUMBER: HCC4W07D010BZ-HM40525935-41WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.1	4.9
10°-20°	110.0	13.8
20°-30°	154.2	19.3
30°-40°	158.8	19.9
40°-50°	135.2	16.9
50°-60°	100.2	12.5
60°-70°	62.9	7.9
70°-80°	31.2	3.9
80°-90°	8.2	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°	303.3	37.9
0°-40°	462.1	57.8
0°-60°	697.5	87.2
0°-90°	799.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	412	412	412	412	412	
5°	432	425	410	399	395	42
15°	447	427	386	358	350	126
25°	404	376	325	296	290	185
35°	304	281	243	227	227	189
45°	201	187	166	162	167	156
55°	127	117	104	106	110	115
65°	74	67	60	59	60	74
75°	34	30	26	29	30	36
85°	6	6	7	8	8	8
90°	0	0	0	0	0	

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



TEST NUMBER: P581532

CATALOG NUMBER: HCC4W07D010BZ-HM40525935-41WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4
2.5°	421.4	419.8	417.8	414.0	410.4	407.2	404.0	402.4	401.8
5°	432.0	428.8	424.6	417.8	410.4	404.0	398.6	396.0	395.0
7.5°	439.4	436.3	429.4	418.8	408.2	398.6	390.2	386.5	385.4
10°	442.1	438.4	428.8	414.6	400.8	389.1	379.6	374.9	372.7
12.5°	444.2	439.4	427.2	410.4	393.4	379.1	369.1	362.7	361.1
15°	446.9	441.5	426.7	406.0	386.0	369.1	357.9	352.1	349.9
17.5°	444.2	438.4	420.9	397.6	374.9	356.3	344.1	338.9	336.7
20°	435.2	428.8	409.2	384.4	360.1	340.9	328.8	323.5	320.8
22.5°	421.4	414.6	394.4	367.9	343.1	324.6	313.0	307.6	306.0
25°	404.0	397.0	375.9	348.9	324.6	306.6	296.4	291.7	290.2
27.5°	383.3	376.5	355.7	329.3	306.0	289.1	281.1	276.4	275.3
30°	358.5	351.5	331.4	307.0	285.4	269.5	263.1	259.5	258.9
32.5°	330.9	325.1	306.6	284.3	263.7	250.5	245.7	243.0	242.5
35°	303.8	297.6	281.1	261.1	243.0	231.4	227.1	226.6	226.6
37.5°	276.4	270.0	256.7	238.3	222.9	212.4	210.8	211.2	211.2
40°	249.3	243.5	231.9	216.6	202.8	194.8	194.3	195.4	195.8
42.5°	224.0	219.2	208.6	195.4	183.7	177.4	177.9	180.0	181.6
45°	201.2	197.0	187.4	175.8	165.7	160.9	162.5	165.2	166.7
47.5°	180.5	176.8	167.9	157.3	148.7	145.6	147.7	150.9	153.1
50°	161.5	158.3	149.9	138.7	131.8	129.7	132.3	135.5	136.6
52.5°	144.5	141.3	132.3	122.8	117.6	116.5	119.1	121.8	123.4
55°	127.1	124.4	117.0	108.6	104.4	103.8	106.4	108.6	109.6
57.5°	112.8	110.2	103.2	95.8	92.2	91.6	94.2	95.8	96.4
60°	99.0	96.4	90.0	83.1	80.5	80.5	82.0	83.1	83.6
62.5°	86.3	83.6	77.8	72.0	69.9	69.9	69.9	70.4	72.0
65°	74.1	72.0	66.7	61.5	59.9	58.7	58.7	58.7	59.9
67.5°	63.0	60.9	56.7	51.9	50.3	48.7	48.1	49.3	49.3
70°	52.5	50.9	46.5	42.9	41.3	39.7	39.1	41.3	41.3
72.5°	42.9	41.3	38.7	34.9	33.3	32.8	33.9	34.9	35.5
75°	33.9	32.3	30.2	28.1	26.5	27.0	28.6	29.1	29.7
77.5°	25.4	24.9	22.8	21.2	21.2	21.7	22.8	23.8	24.4
80°	18.0	17.5	16.4	15.4	15.9	17.0	17.5	18.5	18.0
82.5°	11.2	11.2	10.6	10.6	11.2	12.2	12.7	13.2	13.8
85°	5.8	5.8	5.8	6.4	6.8	7.4	8.0	8.4	8.4
87.5°	1.6	2.2	2.2	2.6	3.2	3.2	3.8	3.8	3.8
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)