

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: P580252

Luminaire Tested: **HCC4W25D010BZ-HM40525940-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580252  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W25D010BZ-HM40525940-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

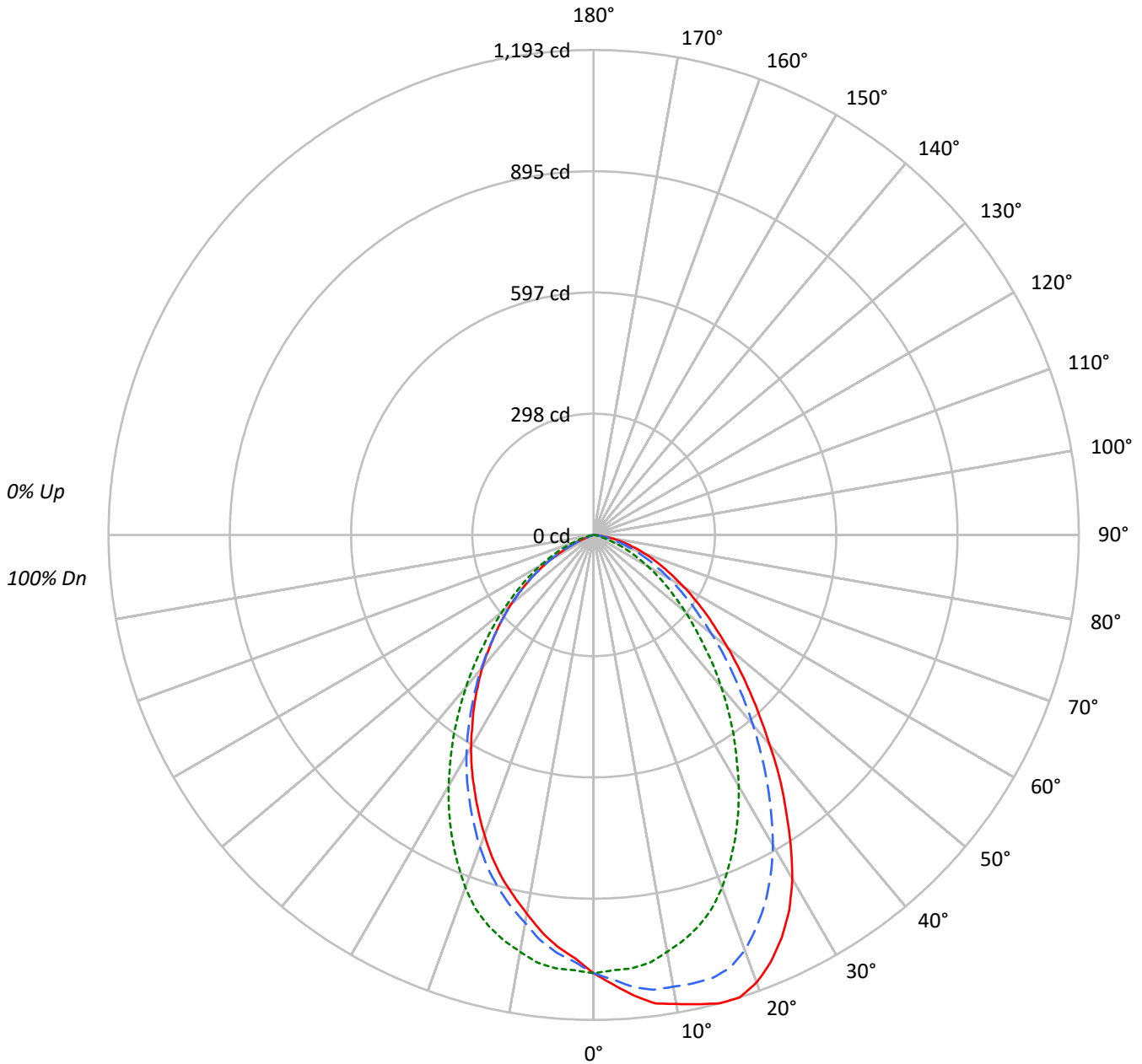
Lumens per Lamp: N/A  
Luminaire Lumens: 1862.0 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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: P580252  
CATALOG NUMBER: HCC4W25D010BZ-HM40525940-41WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580252

CATALOG NUMBER: HCC4W25D010BZ-HM40525940-41WWBB

**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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

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

	0°	90°	180°
0°	132967	132967	132967
5°	140879	132521	125885
10°	146741	130409	118498
15°	152342	127275	111415
20°	153786	121168	103054
25°	148795	112062	94329
30°	139123	101565	85841
35°	123985	90286	77111
40°	108380	78512	68641
45°	94405	66600	59378
50°	82398	56493	50909
55°	72213	46837	41224
60°	63178	37818	30269
65°	55074	28194	17015
70°	48109	18248	5554
75°	39460	9531	1430
80°	29407	4333	1137
85°	17407	2264	2264



TEST NUMBER: P580252

CATALOG NUMBER: HCC4W25D010BZ-HM40525940-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	5.5
10°-20°	284.7	15.3
20°-30°	393.7	21.1
30°-40°	395.9	21.3
40°-50°	319.4	17.2
50°-60°	216.0	11.6
60°-70°	109.9	5.9
70°-80°	35.2	1.9
80°-90°	5.4	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°	780.2	41.9
0°-40°	1176.1	63.2
0°-60°	1711.5	91.9
0°-90°	1862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1862.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1078	1078	1078	1078	1078	
5°	1138	1116	1070	1032	1017	110
15°	1193	1128	997	902	872	336
25°	1093	998	823	722	693	500
35°	823	744	600	524	512	515
45°	541	485	382	340	340	419
55°	336	290	218	190	192	302
65°	189	153	97	63	58	189
75°	83	58	20	5	3	89
85°	12	6	2	2	2	16
90°	0	0	0	0	0	

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



TEST NUMBER: P580252

CATALOG NUMBER: HCC4W25D010BZ-HM40525940-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0	1078.0
2.5°	1107.1	1101.0	1094.8	1084.1	1071.9	1059.6	1051.9	1045.8	1042.7
5°	1137.8	1130.1	1116.4	1093.3	1070.3	1048.8	1032.0	1021.3	1016.7
7.5°	1162.3	1151.6	1128.5	1096.4	1061.1	1027.4	1005.9	990.6	984.5
10°	1171.6	1159.3	1128.5	1085.6	1041.2	999.7	969.1	953.8	946.1
12.5°	1182.3	1168.4	1130.1	1076.5	1021.3	972.2	937.0	917.0	909.3
15°	1193.0	1174.6	1128.5	1062.6	996.7	940.0	901.6	881.7	872.5
17.5°	1193.0	1171.6	1116.4	1039.7	964.5	904.7	861.8	838.7	831.1
20°	1171.6	1147.0	1087.2	1002.9	923.1	858.7	817.3	794.3	785.1
22.5°	1137.8	1110.1	1045.8	958.4	874.1	811.2	769.8	748.3	739.0
25°	1093.3	1065.7	998.3	907.7	823.4	760.6	722.2	702.4	693.1
27.5°	1041.2	1010.5	943.1	852.6	769.8	709.9	674.7	656.3	648.6
30°	976.8	947.7	881.7	792.8	713.1	657.9	625.6	608.8	602.7
32.5°	901.6	877.1	812.7	729.9	654.7	604.1	575.0	561.2	555.1
35°	823.4	800.5	743.7	667.0	599.6	552.0	524.4	515.3	512.1
37.5°	749.9	729.9	674.7	604.1	542.8	501.4	476.9	470.8	467.6
40°	673.1	659.3	608.8	544.4	487.6	450.8	430.9	426.3	426.3
42.5°	604.1	588.8	544.4	486.0	435.5	398.6	384.9	380.2	381.8
45°	541.2	526.0	484.6	430.9	381.8	351.1	340.4	340.4	340.4
47.5°	483.0	469.2	430.9	375.7	335.8	311.3	300.5	300.5	302.1
50°	429.4	420.1	377.2	329.7	294.4	271.4	263.7	262.3	265.3
52.5°	378.8	368.1	329.7	286.8	253.0	234.6	226.9	225.5	226.9
55°	335.8	323.6	289.8	248.4	217.8	199.4	190.1	188.7	191.7
57.5°	294.4	285.2	250.0	213.2	184.0	165.6	157.9	154.9	156.4
60°	256.1	246.9	214.6	179.4	153.3	134.9	124.2	121.1	122.7
62.5°	220.8	213.2	182.4	148.7	122.7	105.8	95.1	87.4	90.4
65°	188.7	181.0	153.3	119.6	96.6	78.2	62.9	56.8	58.3
67.5°	161.0	151.9	125.8	95.1	72.0	52.2	35.2	32.2	32.2
70°	133.4	124.2	101.2	73.6	50.6	27.5	15.4	15.4	15.4
72.5°	107.4	99.7	78.2	55.2	32.2	12.3	6.1	6.1	6.1
75°	82.8	76.7	58.3	38.4	20.0	6.1	4.6	3.0	3.0
77.5°	61.3	55.2	41.4	26.1	12.3	3.0	3.0	3.0	3.0
80°	41.4	36.8	27.5	15.4	6.1	1.6	1.6	1.6	1.6
82.5°	24.5	21.5	15.4	7.7	3.0	1.6	1.6	1.6	1.6
85°	12.3	9.1	6.1	3.0	1.6	1.6	1.6	1.6	1.6
87.5°	3.0	1.6	1.6	1.6	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)