

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: P580213

Luminaire Tested: **HCC4W25D010BZ-HM40525930-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W25D010BZ-HM40525930-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

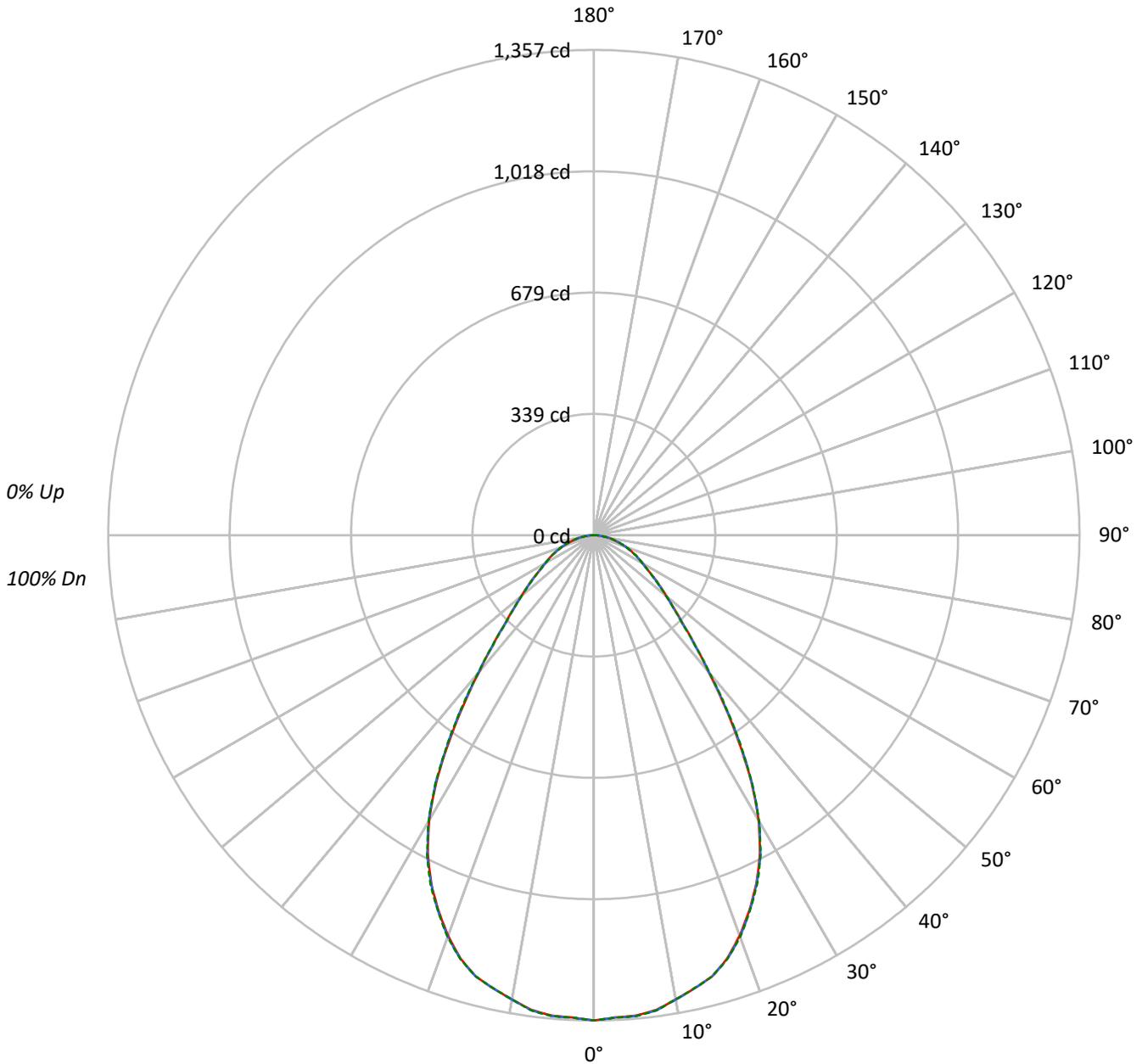
Lumens per Lamp: N/A  
Luminaire Lumens: 2093.7 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580213  
CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580213

CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41WDW

**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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69					69			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	167392	167392	167392
5°	166979	167165	167165
10°	165052	165215	165052
15°	163069	163069	163069
20°	156372	156740	156923
25°	146263	146440	146835
30°	131047	131460	131460
35°	106398	107256	107452
40°	80299	80750	80991
45°	61507	61262	61262
50°	50679	50410	50410
55°	43504	43181	43181
60°	38829	38459	38459
65°	36483	36483	36483
70°	33972	33972	33972
75°	30786	31454	30786
80°	28981	27916	28981
85°	23776	23776	23776



TEST NUMBER: P580213

CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.9	6.1
10°-20°	357.8	17.1
20°-30°	491.7	23.5
30°-40°	442.1	21.1
40°-50°	279.3	13.3
50°-60°	182.4	8.7
60°-70°	123.5	5.9
70°-80°	69.5	3.3
80°-90°	19.5	0.9
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°	977.3	46.7
0°-40°	1419.4	67.8
0°-60°	1881.1	89.8
0°-90°	2093.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1349	1349	1350	1350	1350	128
15°	1277	1277	1277	1277	1277	358
25°	1075	1076	1076	1079	1079	490
35°	707	710	712	715	714	440
45°	353	351	351	351	351	280
55°	202	202	201	202	201	183
65°	125	125	125	125	125	124
75°	65	66	66	66	65	69
85°	17	17	17	17	17	20
90°	0	0	0	0	0	



TEST NUMBER: P580213

CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1350.1	1350.1	1350.1	1350.1	1350.1
5°	1348.6	1348.6	1350.1	1350.1	1350.1
7.5°	1338.8	1340.2	1340.2	1340.2	1340.2
10°	1317.8	1317.8	1319.1	1319.1	1317.8
12.5°	1298.0	1298.0	1298.0	1299.5	1298.0
15°	1277.0	1277.0	1277.0	1277.0	1277.0
17.5°	1240.4	1241.9	1241.9	1241.9	1241.9
20°	1191.3	1194.1	1194.1	1195.5	1195.5
22.5°	1135.1	1136.5	1137.9	1139.3	1137.9
25°	1074.7	1076.0	1076.0	1078.9	1078.9
27.5°	1004.5	1005.8	1008.6	1008.6	1008.6
30°	920.1	921.6	923.0	923.0	923.0
32.5°	820.4	820.4	823.3	824.6	823.3
35°	706.6	709.5	712.3	715.1	713.6
37.5°	598.5	601.3	602.7	602.7	604.1
40°	498.7	501.5	501.5	504.3	503.0
42.5°	420.0	418.6	418.6	421.5	420.0
45°	352.6	351.2	351.2	351.2	351.2
47.5°	303.5	302.0	302.0	302.0	302.0
50°	264.1	262.7	262.7	262.7	262.7
52.5°	231.8	230.4	230.4	230.4	229.0
55°	202.3	202.3	200.8	202.3	200.8
57.5°	175.6	175.6	175.6	175.6	175.6
60°	157.4	155.9	155.9	155.9	155.9
62.5°	140.4	140.4	140.4	140.4	140.4
65°	125.0	125.0	125.0	125.0	125.0
67.5°	109.6	108.2	109.6	109.6	108.2
70°	94.2	92.7	94.2	94.2	94.2
72.5°	78.7	78.7	78.7	80.0	78.7
75°	64.6	66.0	66.0	66.0	64.6
77.5°	51.9	53.4	51.9	51.9	51.9
80°	40.8	39.3	39.3	39.3	40.8
82.5°	28.1	28.1	28.1	28.1	28.1
85°	16.8	16.8	16.8	16.8	16.8
87.5°	7.0	7.0	7.0	7.0	7.0
90°	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)