

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: P580215

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W25D010BZ-HM40525930-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

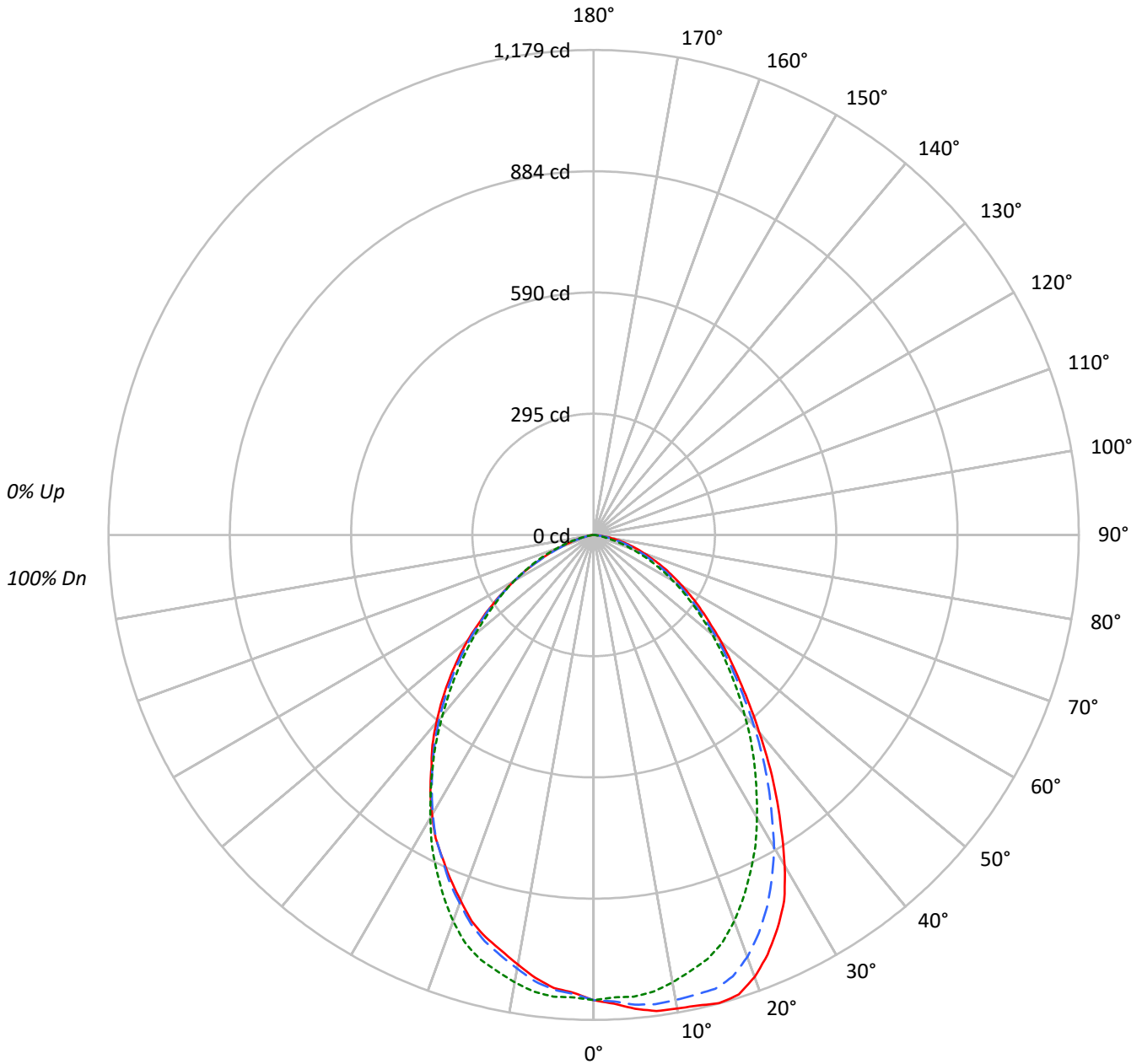
Lumens per Lamp: N/A  
Luminaire Lumens: 2155.6 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): 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: P580215  
CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580215

CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41RWWH

**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	100	100	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59	59	59	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52	52	52	52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47	47	47	47
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42	42	42	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38	38	38	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35	35	35	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

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

	0°	90°	180°
0°	139492	139492	139492
5°	143157	139504	136892
10°	146403	138312	132851
15°	150516	136342	129344
20°	150111	131117	124108
25°	143786	122759	118159
30°	132258	113059	111848
35°	116351	102603	103447
40°	100667	91844	95692
45°	87480	81619	86521
50°	77639	71998	76853
55°	68879	63159	65869
60°	61352	54765	54765
65°	54520	45501	42641
70°	47099	34441	30402
75°	39508	22780	18729
80°	29904	11010	9944
85°	15992	3963	3963



TEST NUMBER: P580215  
 CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	5.0
10°-20°	303.6	14.1
20°-30°	428.2	19.9
30°-40°	442.4	20.5
40°-50°	375.0	17.4
50°-60°	272.9	12.7
60°-70°	159.4	7.4
70°-80°	59.2	2.7
80°-90°	7.7	0.4
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°	839.0	38.9
0°-40°	1281.3	59.4
0°-60°	1929.2	89.5
0°-90°	2155.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2155.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1131	1131	1131	1131	1131	
5°	1156	1146	1127	1110	1106	111
15°	1179	1142	1068	1023	1013	331
25°	1056	998	902	870	868	483
35°	773	739	681	683	687	483
45°	502	488	468	485	496	390
55°	320	305	294	304	306	288
65°	187	171	156	146	146	185
75°	83	69	48	38	39	89
85°	11	7	3	3	3	16
90°	0	0	0	0	0	



TEST NUMBER: P580215

CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9
2.5°	1140.7	1138.0	1135.2	1130.9	1125.4	1121.1	1116.9	1114.1	1114.1
5°	1156.2	1152.0	1146.4	1136.6	1126.7	1118.3	1109.9	1105.6	1105.6
7.5°	1167.5	1161.9	1150.7	1136.6	1119.7	1107.1	1094.5	1088.8	1086.0
10°	1168.9	1163.3	1147.9	1126.7	1104.3	1084.6	1070.5	1062.2	1060.7
12.5°	1171.7	1164.7	1145.0	1115.5	1086.0	1062.2	1046.7	1038.2	1035.4
15°	1178.7	1168.9	1142.2	1104.3	1067.7	1039.6	1022.8	1015.8	1012.9
17.5°	1171.7	1157.7	1125.4	1080.3	1039.6	1008.8	991.8	984.8	984.8
20°	1143.6	1129.6	1091.6	1042.4	998.9	969.4	952.5	948.4	945.5
22.5°	1104.3	1088.8	1048.1	996.1	952.5	925.9	914.6	909.0	907.6
25°	1056.5	1041.1	997.5	944.1	902.0	879.5	869.7	869.7	868.2
27.5°	1003.1	983.5	938.5	892.1	851.4	834.6	830.3	830.3	831.7
30°	928.6	914.6	876.7	831.7	793.8	782.5	782.5	785.3	785.3
32.5°	848.6	838.7	805.0	765.7	736.2	729.1	731.9	737.6	738.9
35°	772.7	761.5	738.9	703.8	681.4	678.5	682.8	687.0	687.0
37.5°	698.3	687.0	671.5	643.4	626.6	627.9	633.6	639.2	643.4
40°	625.2	616.8	605.5	583.0	570.4	576.0	583.0	588.7	594.3
42.5°	560.5	552.1	543.7	526.8	518.4	525.4	533.9	539.4	545.1
45°	501.5	496.0	487.5	473.5	467.9	474.9	484.7	490.3	496.0
47.5°	450.9	448.2	436.9	424.3	421.5	428.5	436.9	443.9	448.2
50°	404.6	400.5	390.5	377.9	375.2	386.3	392.0	396.2	400.5
52.5°	359.7	355.4	344.2	332.9	332.9	341.4	345.6	347.1	351.2
55°	320.3	316.1	304.8	296.5	293.7	300.7	303.5	303.5	306.3
57.5°	283.8	279.5	268.4	258.5	257.1	261.4	261.4	261.4	262.7
60°	248.7	244.4	233.3	224.8	222.0	223.4	222.0	220.6	222.0
62.5°	216.3	212.1	200.8	191.0	188.2	188.2	184.0	182.7	184.0
65°	186.8	179.8	171.4	161.6	155.9	151.7	146.1	146.1	146.1
67.5°	157.4	151.7	141.9	132.1	125.1	118.0	109.6	112.4	113.8
70°	130.6	126.4	115.2	105.3	95.5	87.2	80.0	82.9	84.3
72.5°	106.8	101.2	91.3	80.0	71.7	60.4	56.2	59.0	59.0
75°	82.9	77.2	68.9	57.6	47.8	37.9	37.9	39.3	39.3
77.5°	61.9	56.2	47.8	37.9	29.5	22.5	23.9	23.9	23.9
80°	42.1	37.9	30.9	22.5	15.5	12.6	12.6	12.6	14.0
82.5°	23.9	21.1	16.8	11.3	7.0	7.0	7.0	7.0	7.0
85°	11.3	8.5	7.0	4.2	2.8	2.8	2.8	2.8	2.8
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)