

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: P579953

Luminaire Tested: **HCC4W15D010SL-HM40525935-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579953  
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: HCC4W15D010SL-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**

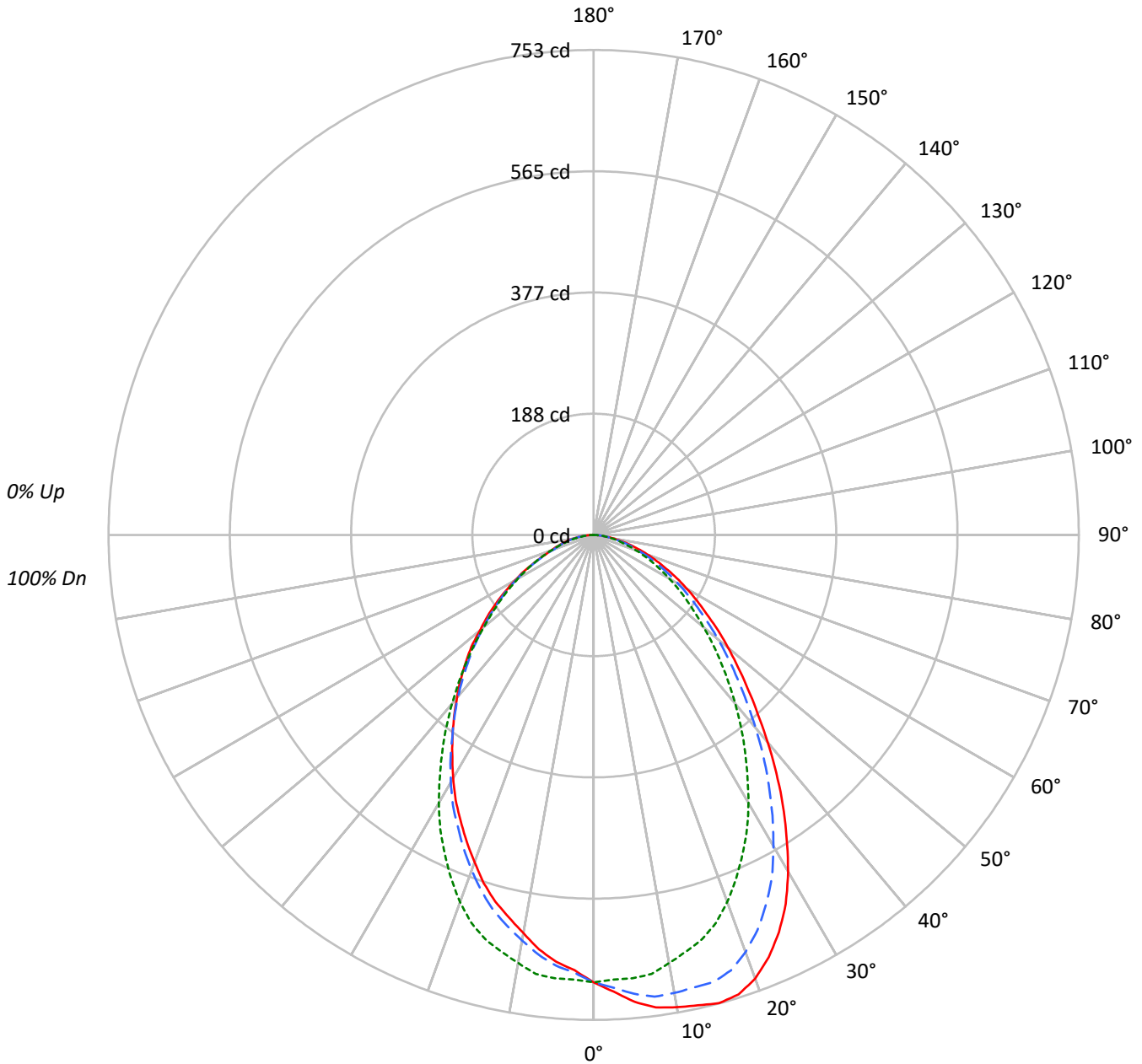
Lumens per Lamp: N/A  
Luminaire Lumens: 1347.1 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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: P579953  
CATALOG NUMBER: HCC4W15D010SL-HM40525935-41WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P579953

CATALOG NUMBER: HCC4W15D010SL-HM40525935-41WWWB

**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								
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°	85676	85676	85676
5°	90101	85570	82375
10°	93260	84543	78618
15°	96105	83003	75264
20°	96215	79597	70934
25°	92600	74391	66511
30°	85969	68451	62098
35°	77080	61631	57475
40°	67627	55003	53135
45°	59099	48685	48982
50°	52195	42619	44135
55°	46020	37784	39676
60°	41148	33427	34759
65°	36424	29390	29390
70°	31808	25100	25100
75°	27212	21255	23781
80°	21594	18966	21594
85°	13869	16417	20096



TEST NUMBER: P579953  
 CATALOG NUMBER: HCC4W15D010SL-HM40525935-41WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.8	4.9
10°-20°	185.3	13.8
20°-30°	259.6	19.3
30°-40°	267.5	19.9
40°-50°	227.7	16.9
50°-60°	168.7	12.5
60°-70°	105.9	7.9
70°-80°	52.6	3.9
80°-90°	13.8	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°	510.8	37.9
0°-40°	778.3	57.8
0°-60°	1174.8	87.2
0°-90°	1347.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	695	695	695	695	695	
5°	728	715	691	671	665	70
15°	753	719	650	603	589	212
25°	680	633	547	499	489	311
35°	512	473	409	382	382	319
45°	339	316	279	274	281	263
55°	214	197	176	179	184	193
65°	125	112	101	99	101	124
75°	57	51	45	48	50	61
85°	10	10	12	13	14	13
90°	0	0	0	0	0	



TEST NUMBER: P579953

CATALOG NUMBER: HCC4W15D010SL-HM40525935-41WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6
2.5°	709.8	707.1	703.6	697.3	691.1	685.7	680.4	677.7	676.7
5°	727.7	722.2	715.2	703.6	691.1	680.4	671.4	667.0	665.3
7.5°	740.1	734.7	723.1	705.3	687.5	671.4	657.2	650.9	649.1
10°	744.6	738.4	722.2	698.2	675.0	655.4	639.3	631.4	627.7
12.5°	748.1	740.1	719.6	691.1	662.5	638.4	621.5	610.8	608.2
15°	752.6	743.7	718.7	683.9	650.0	621.5	602.8	592.9	589.4
17.5°	748.1	738.4	708.9	669.7	631.4	600.1	579.6	570.7	567.1
20°	733.0	722.2	689.2	647.4	606.4	574.3	553.7	544.9	540.4
22.5°	709.8	698.2	664.3	619.8	577.8	546.6	527.0	518.1	515.4
25°	680.4	668.8	633.1	587.6	546.6	516.3	499.4	491.3	488.7
27.5°	645.6	634.0	599.2	554.6	515.4	486.9	473.4	465.5	463.7
30°	603.6	592.0	558.2	517.2	480.6	453.9	443.2	436.9	436.0
32.5°	557.4	547.5	516.3	478.8	444.1	421.8	413.8	409.3	408.4
35°	511.9	501.2	473.4	439.6	409.3	389.6	382.5	381.7	381.7
37.5°	465.5	454.8	432.5	401.2	375.4	357.6	354.9	355.8	355.8
40°	420.0	410.2	390.6	364.7	341.6	328.1	327.2	329.0	330.0
42.5°	377.1	369.2	351.3	329.0	309.4	298.7	299.6	303.1	305.9
45°	338.8	331.7	315.6	296.1	279.1	271.1	273.8	278.2	280.8
47.5°	304.0	297.8	282.7	264.8	250.6	245.3	248.8	254.1	257.6
50°	272.0	266.6	252.3	233.7	222.1	218.4	223.0	228.3	230.0
52.5°	243.4	238.1	223.0	206.8	198.0	196.1	200.7	205.1	207.7
55°	214.0	209.5	197.0	182.8	175.7	174.8	179.2	182.8	184.5
57.5°	189.9	185.4	173.8	161.3	155.2	154.3	158.7	161.3	162.2
60°	166.8	162.2	151.6	140.0	135.5	135.5	138.3	140.0	140.9
62.5°	145.3	140.9	131.1	121.3	117.7	117.7	117.7	118.6	121.3
65°	124.8	121.3	112.3	103.5	100.7	99.0	99.0	99.0	100.7
67.5°	106.1	102.6	95.4	87.4	84.7	82.1	81.2	82.9	82.9
70°	88.2	85.6	78.5	72.2	69.6	66.9	65.9	69.6	69.6
72.5°	72.2	69.6	65.2	58.9	56.2	55.3	57.1	58.9	59.7
75°	57.1	54.3	50.8	47.3	44.6	45.5	48.1	49.0	49.9
77.5°	42.8	42.0	38.3	35.7	35.7	36.6	38.3	40.1	41.0
80°	30.4	29.4	27.6	25.8	26.7	28.5	29.4	31.2	30.4
82.5°	18.8	18.8	17.9	17.9	18.8	20.5	21.4	22.3	23.2
85°	9.8	9.8	9.8	10.7	11.6	12.5	13.4	14.2	14.2
87.5°	2.7	3.5	3.5	4.4	5.3	5.3	6.3	6.3	6.3
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)