

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: P579754

Luminaire Tested: **HCC4W10D010MW-HM40525840-41WWW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W10D010MW-HM40525840-41WWW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

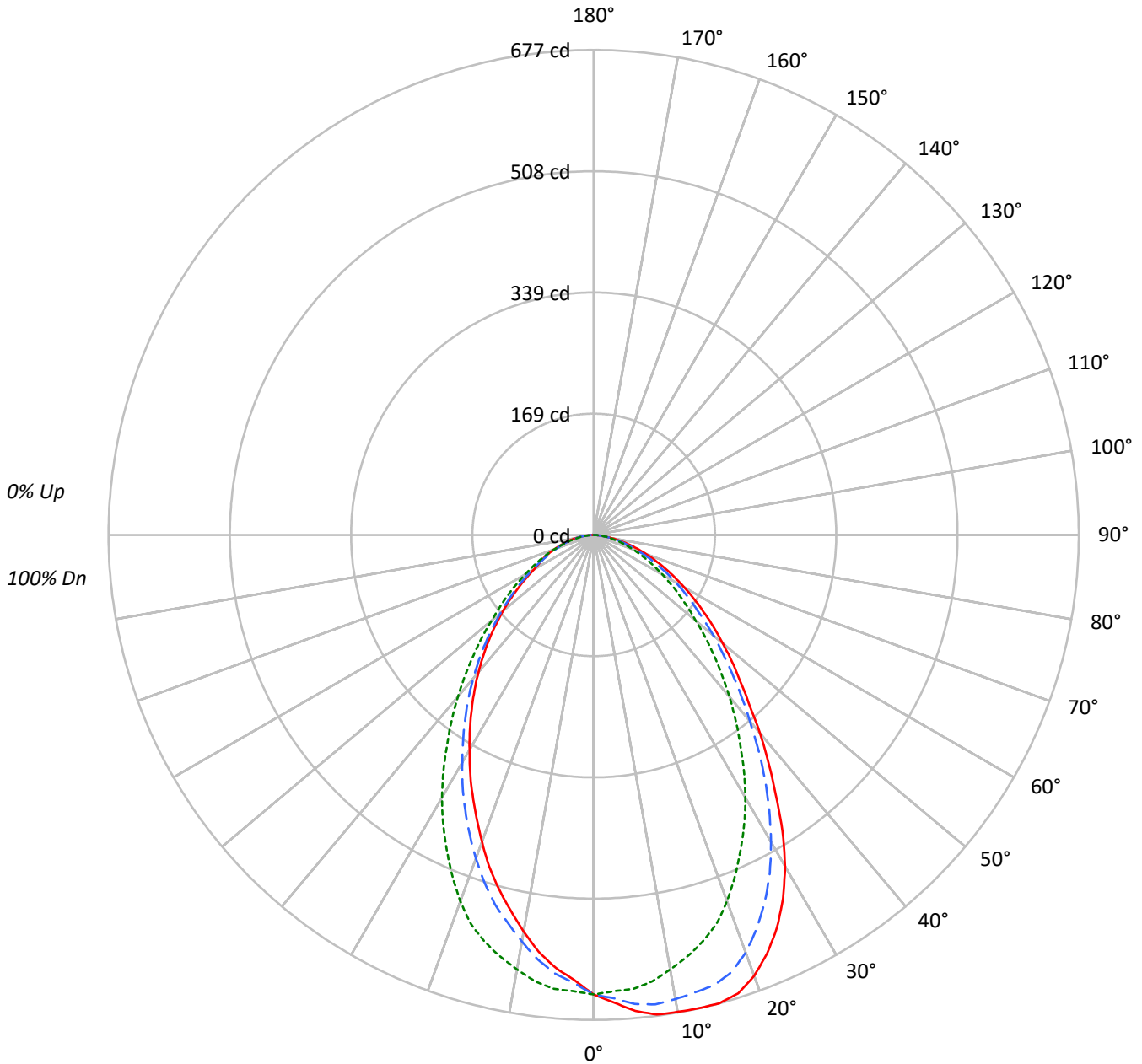
Lumens per Lamp: N/A  
Luminaire Lumens: 1145.4 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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: P579754  
CATALOG NUMBER: HCC4W10D010MW-HM40525840-41WWW

### Luminous Intensity Polar Plot





TEST NUMBER: P579754

CATALOG NUMBER: HCC4W10D010MW-HM40525840-41WWW

**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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47					47			
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35					35			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

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

	0°	90°	180°
0°	79114	79114	79114
5°	82586	78760	75120
10°	84680	77128	70415
15°	86438	75060	65317
20°	85963	71419	59829
25°	82366	66021	54425
30°	76085	60289	49323
35°	66691	53636	44661
40°	58062	47387	40222
45°	50534	41324	35934
50°	45037	35615	31701
55°	40235	31332	27440
60°	35943	27383	23633
65°	31930	24020	22444
70°	28022	20701	20989
75°	23733	17633	19396
80°	18184	15059	17687
85°	10614	11746	15001



TEST NUMBER: P579754  
 CATALOG NUMBER: HCC4W10D010MW-HM40525840-41WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	5.2
10°-20°	165.8	14.5
20°-30°	226.6	19.8
30°-40°	227.5	19.9
40°-50°	188.2	16.4
50°-60°	136.4	11.9
60°-70°	86.4	7.5
70°-80°	43.7	3.8
80°-90°	10.7	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°	452.5	39.5
0°-40°	680.0	59.4
0°-60°	1004.6	87.7
0°-90°	1145.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	641	641	641	641	641	
5°	667	657	636	615	607	64
15°	677	650	588	534	512	190
25°	605	565	485	424	400	277
35°	443	416	356	312	297	278
45°	290	273	237	214	206	225
55°	187	170	146	133	128	168
65°	109	97	82	74	77	109
75°	50	43	37	38	41	53
85°	8	8	8	10	11	10
90°	0	0	0	0	0	

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



TEST NUMBER: P579754

CATALOG NUMBER: HCC4W10D010MW-HM40525840-41WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4
2.5°	653.4	651.2	647.4	642.9	637.6	631.6	626.2	623.3	621.8
5°	667.0	664.0	657.2	647.4	636.1	624.8	615.0	608.9	606.7
7.5°	675.3	670.9	661.0	645.9	628.5	611.9	597.6	589.3	587.1
10°	676.1	670.9	658.0	637.6	615.8	593.8	576.5	564.4	562.2
12.5°	676.9	670.1	654.2	630.0	602.9	575.7	554.5	540.2	536.5
15°	676.9	670.1	650.5	621.8	587.8	556.8	533.5	516.9	511.5
17.5°	670.9	663.2	639.9	606.7	569.7	535.0	507.8	490.5	485.1
20°	654.9	646.6	620.2	584.0	544.1	507.8	480.7	462.6	455.8
22.5°	632.3	622.5	594.6	555.3	515.4	478.4	452.0	433.1	427.1
25°	605.2	595.3	565.1	526.7	485.1	450.4	424.0	406.7	399.9
27.5°	572.0	561.4	532.0	493.4	455.0	420.3	396.1	380.3	373.5
30°	534.2	522.9	495.0	458.0	423.3	390.1	366.7	353.9	346.3
32.5°	490.5	480.7	455.8	422.5	390.1	358.4	338.8	327.5	321.5
35°	442.9	437.7	416.5	387.8	356.2	329.8	312.4	301.8	296.6
37.5°	400.7	395.3	377.2	353.1	325.2	301.1	286.8	277.7	273.1
40°	360.6	356.2	338.8	318.4	294.3	273.1	261.1	254.2	249.8
42.5°	321.5	319.2	304.9	286.0	264.8	246.7	236.9	231.7	227.8
45°	289.7	286.8	273.1	255.0	236.9	221.8	213.5	209.7	206.0
47.5°	261.9	258.1	243.8	227.8	211.3	197.7	190.2	186.4	184.8
50°	234.7	230.9	218.0	202.2	185.6	175.8	169.8	166.0	165.2
52.5°	210.5	206.8	192.4	177.3	164.4	156.2	150.9	147.1	145.7
55°	187.1	182.6	170.5	156.2	145.7	138.0	132.8	129.0	127.6
57.5°	166.0	161.5	150.9	137.4	127.6	120.7	116.2	112.4	111.0
60°	145.7	141.9	132.0	119.3	111.0	104.9	100.4	97.3	95.8
62.5°	126.8	123.7	113.9	102.6	95.8	90.6	86.8	83.8	85.2
65°	109.4	106.4	97.3	87.5	82.3	76.9	74.0	74.0	76.9
67.5°	92.9	89.8	82.3	74.0	69.4	65.7	63.4	65.7	67.9
70°	77.7	74.7	67.9	61.1	57.4	54.3	54.3	56.6	58.2
72.5°	63.4	60.3	55.1	49.8	46.8	44.5	46.8	48.3	49.8
75°	49.8	47.6	43.0	39.3	37.0	36.2	38.5	39.9	40.7
77.5°	37.0	35.5	32.4	29.5	27.9	28.7	31.0	31.6	32.4
80°	25.6	24.9	22.6	21.2	21.2	21.8	23.4	24.1	24.9
82.5°	15.8	15.8	14.3	13.5	14.3	15.8	16.6	17.4	17.4
85°	7.5	8.3	7.5	7.5	8.3	9.8	9.8	10.6	10.6
87.5°	2.3	2.3	3.1	3.1	3.8	3.8	3.8	3.8	4.6
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)