

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: P581078

Luminaire Tested: **HCC4W05D010SL-HM40525930-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W05D010SL-HM40525930-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

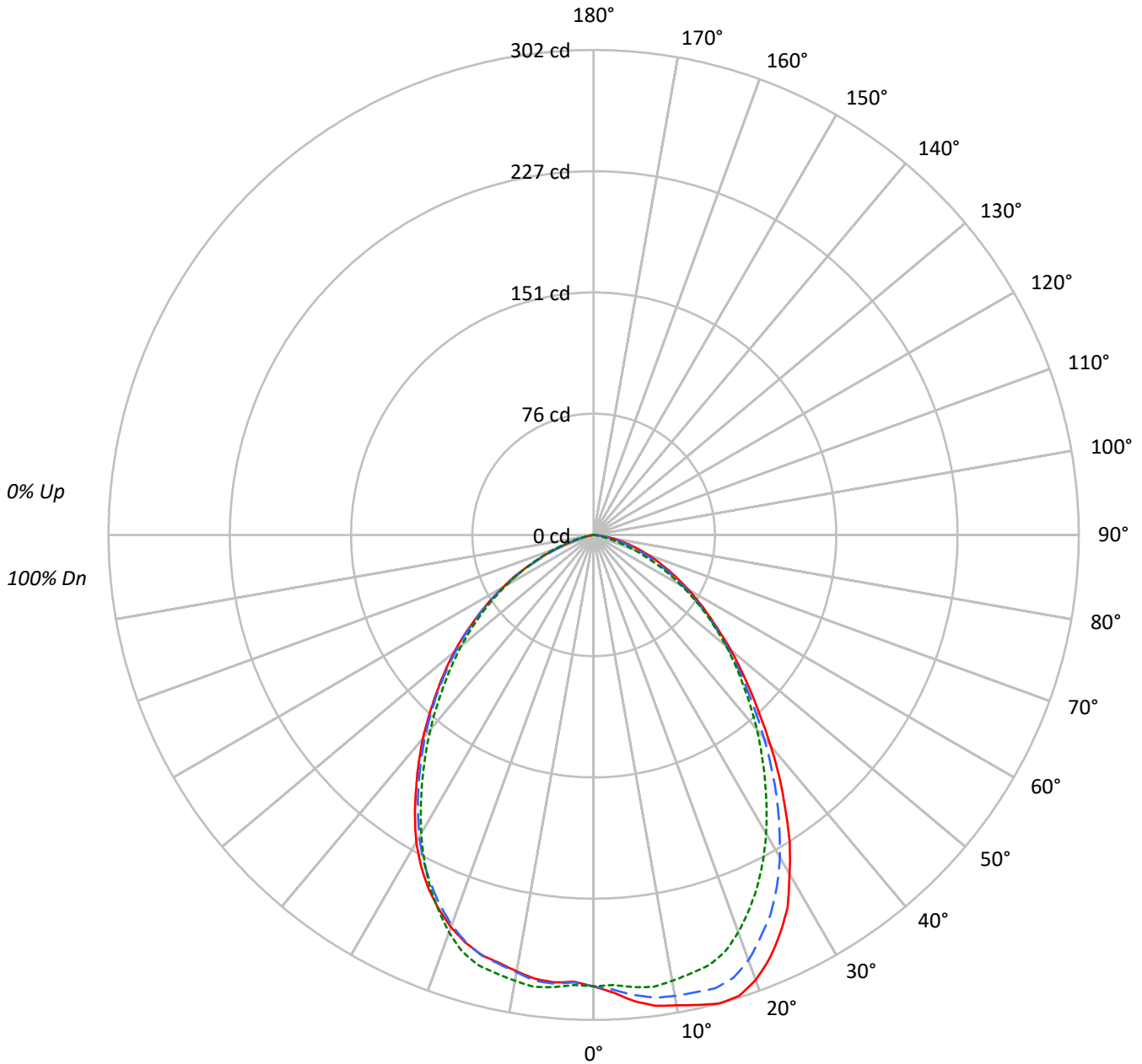
Lumens per Lamp: N/A  
Luminaire Lumens: 585.9 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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: P581078  
CATALOG NUMBER: HCC4W05D010SL-HM40525930-41RWWC

### Luminous Intensity Polar Plot





TEST NUMBER: P581078

CATALOG NUMBER: HCC4W05D010SL-HM40525930-41RWWC

**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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67	67	67	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58	58	58	58
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52	52	52	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46	46	46	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41	41	41	41
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37	37	37	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34	34	34	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31	31	31	31

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

	0°	90°	180°
0°	34672	34672	34672
5°	36093	35003	34632
10°	37261	35308	34556
15°	38577	35423	34555
20°	38709	34561	34115
25°	37331	32840	33099
30°	34738	30579	31448
35°	31290	27977	29001
40°	27598	25457	26616
45°	24142	22921	24055
50°	21358	20628	21741
55°	18795	18236	18967
60°	16775	15566	16010
65°	14739	12667	12433
70°	12911	9341	8511
75°	10723	5624	4527
80°	8098	2202	1350
85°	3680	425	425



TEST NUMBER: P581078  
 CATALOG NUMBER: HCC4W05D010SL-HM40525930-41RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.1	4.6
10°-20°	79.2	13.5
20°-30°	114.6	19.6
30°-40°	120.9	20.6
40°-50°	104.7	17.9
50°-60°	77.5	13.2
60°-70°	44.7	7.6
70°-80°	15.6	2.7
80°-90°	1.6	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°	220.9	37.7
0°-40°	341.8	58.3
0°-60°	524.0	89.4
0°-90°	585.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	281	281	281	281	281	
5°	292	288	283	280	280	28
15°	302	292	277	271	271	85
25°	274	261	241	240	243	126
35°	208	198	186	190	193	130
45°	138	134	131	136	138	107
55°	87	86	85	88	88	79
65°	50	47	43	41	43	50
75°	22	19	12	10	10	24
85°	3	2	0	0	0	4
90°	0	0	0	0	0	

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



TEST NUMBER: P581078

CATALOG NUMBER: HCC4W05D010SL-HM40525930-41RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
2.5°	285.3	284.7	283.5	281.9	280.5	279.3	278.9	278.5	278.5
5°	291.5	289.9	287.6	284.7	282.7	281.6	280.5	279.7	279.7
7.5°	295.7	294.1	290.7	286.5	283.9	281.6	280.0	278.9	278.9
10°	297.5	295.7	291.5	286.1	281.9	278.9	276.6	275.9	275.9
12.5°	299.8	297.5	291.8	285.0	279.7	275.9	273.5	272.9	272.9
15°	302.1	299.4	292.3	284.2	277.4	272.9	270.9	270.6	270.6
17.5°	301.0	297.5	289.2	279.7	272.1	267.5	265.6	265.6	266.0
20°	294.9	291.5	281.9	271.3	263.3	259.9	258.4	259.1	259.9
22.5°	285.8	281.6	271.3	261.0	252.7	249.7	249.7	250.8	252.0
25°	274.3	270.6	260.7	249.2	241.3	239.0	239.8	241.6	243.2
27.5°	261.4	257.3	247.0	236.3	228.4	227.2	229.2	231.8	232.6
30°	243.9	240.5	231.8	221.6	214.7	214.3	217.0	218.8	220.8
32.5°	227.2	223.5	215.1	205.2	200.2	200.7	203.6	206.0	207.1
35°	207.8	204.4	198.4	190.3	185.8	186.6	190.0	192.3	192.6
37.5°	189.7	187.4	181.3	175.1	171.7	173.3	176.3	179.0	179.0
40°	171.4	169.5	164.9	159.9	158.1	159.9	163.0	165.3	165.3
42.5°	153.9	152.8	148.9	145.5	144.4	147.1	149.7	151.6	151.2
45°	138.4	137.2	134.5	131.9	131.4	134.2	136.4	137.6	137.9
47.5°	124.3	123.5	121.2	119.3	119.3	122.0	123.8	125.0	125.4
50°	111.3	110.5	108.6	107.1	107.5	110.2	111.7	112.8	113.3
52.5°	98.4	98.1	96.5	94.7	95.8	97.6	99.5	100.3	100.7
55°	87.4	87.4	85.5	84.0	84.8	86.6	87.7	88.2	88.2
57.5°	77.5	77.2	74.9	73.3	73.7	75.6	76.4	76.7	76.7
60°	68.0	67.6	65.4	63.1	63.1	64.2	64.6	64.9	64.9
62.5°	58.9	58.6	55.8	53.9	53.2	52.8	52.8	53.6	55.0
65°	50.5	50.2	47.4	44.5	43.4	42.2	41.1	41.8	42.6
67.5°	42.9	42.2	39.5	36.9	34.2	32.3	30.4	31.6	33.0
70°	35.8	35.0	31.9	28.8	25.9	22.8	21.2	22.8	23.6
72.5°	28.8	28.1	25.1	22.0	18.3	15.2	14.9	15.2	15.5
75°	22.5	22.0	19.0	15.5	11.8	9.5	9.5	9.5	9.5
77.5°	16.7	16.0	12.9	9.9	6.8	5.3	5.0	5.0	5.0
80°	11.4	10.7	7.9	5.7	3.1	2.3	2.3	1.9	1.9
82.5°	6.5	6.1	4.2	2.3	1.1	0.8	0.8	0.8	0.8
85°	2.6	2.3	1.5	0.8	0.3	0.3	0.3	0.3	0.3
87.5°	0.3	0.3	0.3	0.0	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)