

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: P579715

Luminaire Tested: **HCC4W10D010SL-HM40525830-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579715  
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: HCC4W10D010SL-HM40525830-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

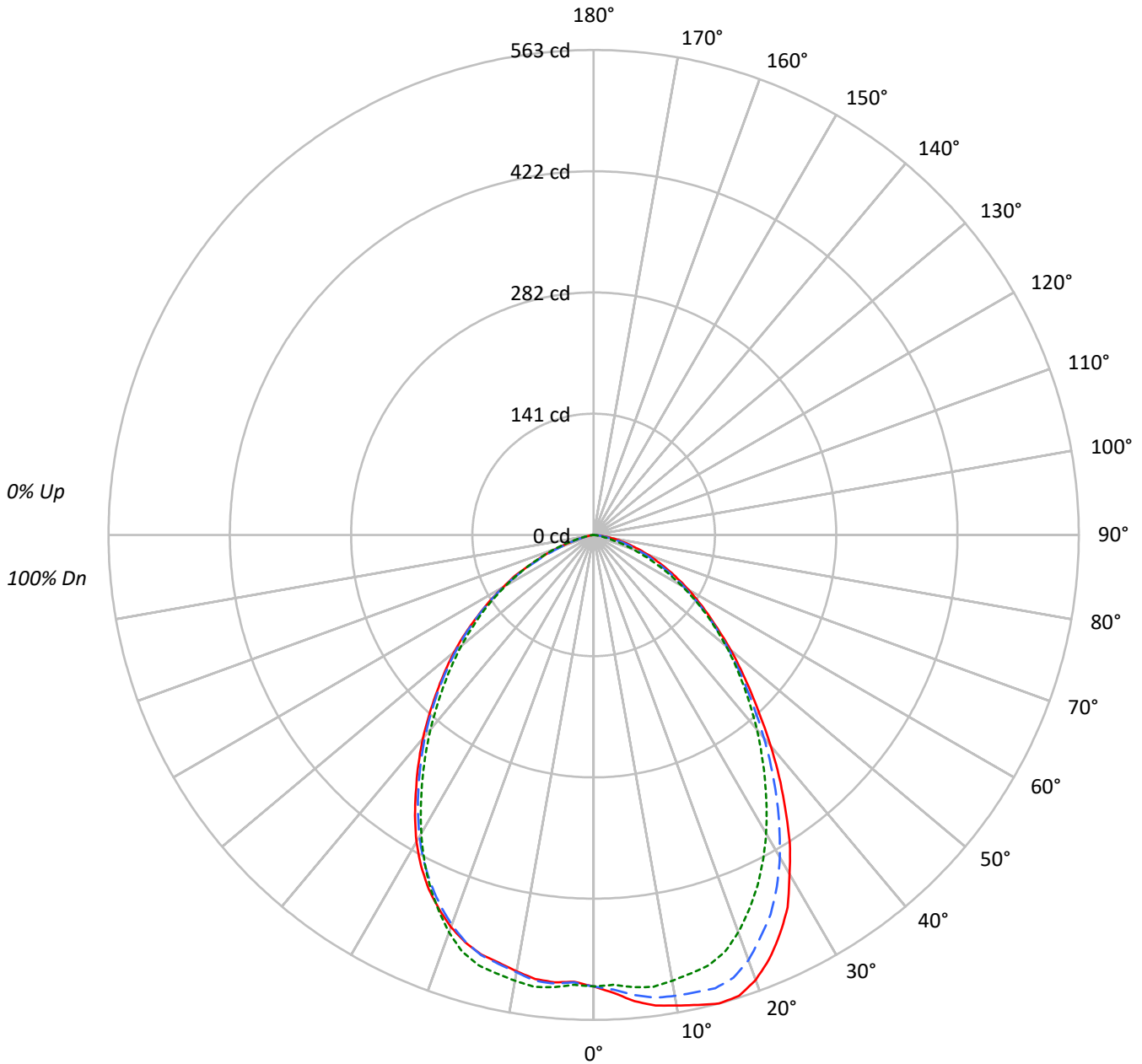
Lumens per Lamp: N/A  
Luminaire Lumens: 1092.3 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P579715  
CATALOG NUMBER: HCC4W10D010SL-HM40525830-41RWWC

### Luminous Intensity Polar Plot





TEST NUMBER: P579715

CATALOG NUMBER: HCC4W10D010SL-HM40525830-41RWWC

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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								
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

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

	0°	90°	180°
0°	64658	64658	64658
5°	67270	65251	64546
10°	69475	65818	64415
15°	71906	66032	64410
20°	72155	64423	63583
25°	69600	61203	61706
30°	64762	56999	58609
35°	58349	52160	54087
40°	51429	47435	49625
45°	44987	42755	44848
50°	39837	38455	40508
55°	35053	33977	35332
60°	31280	29011	29874
65°	27493	23582	23145
70°	24019	17347	15832
75°	19921	10485	8483
80°	15130	4049	2486
85°	7076	991	991



TEST NUMBER: P579715  
 CATALOG NUMBER: HCC4W10D010SL-HM40525830-41RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.6	4.6
10°-20°	147.5	13.5
20°-30°	213.7	19.6
30°-40°	225.4	20.6
40°-50°	195.1	17.9
50°-60°	144.5	13.2
60°-70°	83.3	7.6
70°-80°	29.1	2.7
80°-90°	3.1	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°	411.8	37.7
0°-40°	637.2	58.3
0°-60°	976.8	89.4
0°-90°	1092.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1092.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	524	524	524	524	524	
5°	543	536	527	523	521	52
15°	563	545	517	505	504	158
25°	511	486	450	447	453	234
35°	388	370	346	354	359	242
45°	258	251	245	254	257	200
55°	163	159	158	164	164	147
65°	94	88	81	76	79	94
75°	42	35	22	18	18	45
85°	5	3	1	1	1	8
90°	0	0	0	0	0	



TEST NUMBER: P579715

CATALOG NUMBER: HCC4W10D010SL-HM40525830-41RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
2.5°	532.0	530.5	528.4	525.5	522.8	520.6	520.0	519.2	519.2
5°	543.3	540.4	536.2	530.5	527.0	524.8	522.8	521.3	521.3
7.5°	551.1	548.3	541.9	534.1	529.2	524.8	522.0	520.0	520.0
10°	554.7	551.1	543.3	533.4	525.5	520.0	515.6	514.3	514.3
12.5°	558.9	554.7	544.0	531.2	521.3	514.3	510.1	508.6	508.6
15°	563.1	558.2	544.8	529.9	517.1	508.6	505.0	504.4	504.4
17.5°	561.0	554.7	539.1	521.3	507.2	498.7	495.1	495.1	495.8
20°	549.7	543.3	525.5	505.7	490.8	484.4	481.7	483.1	484.4
22.5°	532.7	524.8	505.7	486.6	471.0	465.3	465.3	467.5	469.7
25°	511.4	504.4	485.9	464.6	449.7	445.5	447.0	450.5	453.4
27.5°	487.3	479.6	460.4	440.6	425.7	423.6	427.1	432.1	433.5
30°	454.7	448.4	432.1	413.0	400.2	399.6	404.4	408.0	411.5
32.5°	423.6	416.5	400.9	382.5	373.3	373.9	379.6	384.0	386.0
35°	387.5	381.1	369.7	354.8	346.4	347.8	354.1	358.5	359.2
37.5°	353.5	349.3	337.9	326.5	320.1	323.0	328.7	333.7	333.7
40°	319.4	315.9	307.4	298.2	294.6	298.2	303.8	308.2	308.2
42.5°	286.9	284.7	277.7	271.3	269.1	274.1	279.0	282.7	281.9
45°	257.9	255.7	250.7	245.8	245.1	250.0	254.3	256.4	257.1
47.5°	231.6	230.2	226.0	222.4	222.4	227.4	230.9	233.1	233.7
50°	207.6	206.1	202.6	199.7	200.4	205.4	208.3	210.4	211.1
52.5°	183.4	182.8	179.9	176.4	178.6	182.1	185.6	187.0	187.7
55°	163.0	163.0	159.3	156.6	158.0	161.5	163.6	164.3	164.3
57.5°	144.5	143.8	139.5	136.7	137.5	141.0	142.4	143.0	143.0
60°	126.8	126.1	121.9	117.6	117.6	119.7	120.4	121.1	121.1
62.5°	109.8	109.1	104.1	100.6	99.1	98.4	98.4	99.9	102.8
65°	94.2	93.5	88.5	82.8	80.8	78.6	76.5	78.0	79.3
67.5°	80.0	78.6	73.6	68.7	63.7	60.2	56.7	58.8	61.7
70°	66.6	65.2	59.5	53.8	48.1	42.4	39.7	42.4	43.9
72.5°	53.8	52.5	46.8	41.1	34.0	28.3	27.7	28.3	29.0
75°	41.8	41.1	35.4	29.0	22.0	17.8	17.8	17.8	17.8
77.5°	31.2	29.7	24.1	18.4	12.7	9.9	9.2	9.2	9.2
80°	21.3	19.8	14.9	10.6	5.7	4.2	4.2	3.5	3.5
82.5°	12.1	11.4	7.7	4.2	2.2	1.4	1.4	1.4	1.4
85°	5.0	4.2	2.8	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	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)