

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: P581020

Luminaire Tested: **HCC4W05D010SL-HM40525835-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W05D010SL-HM40525835-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

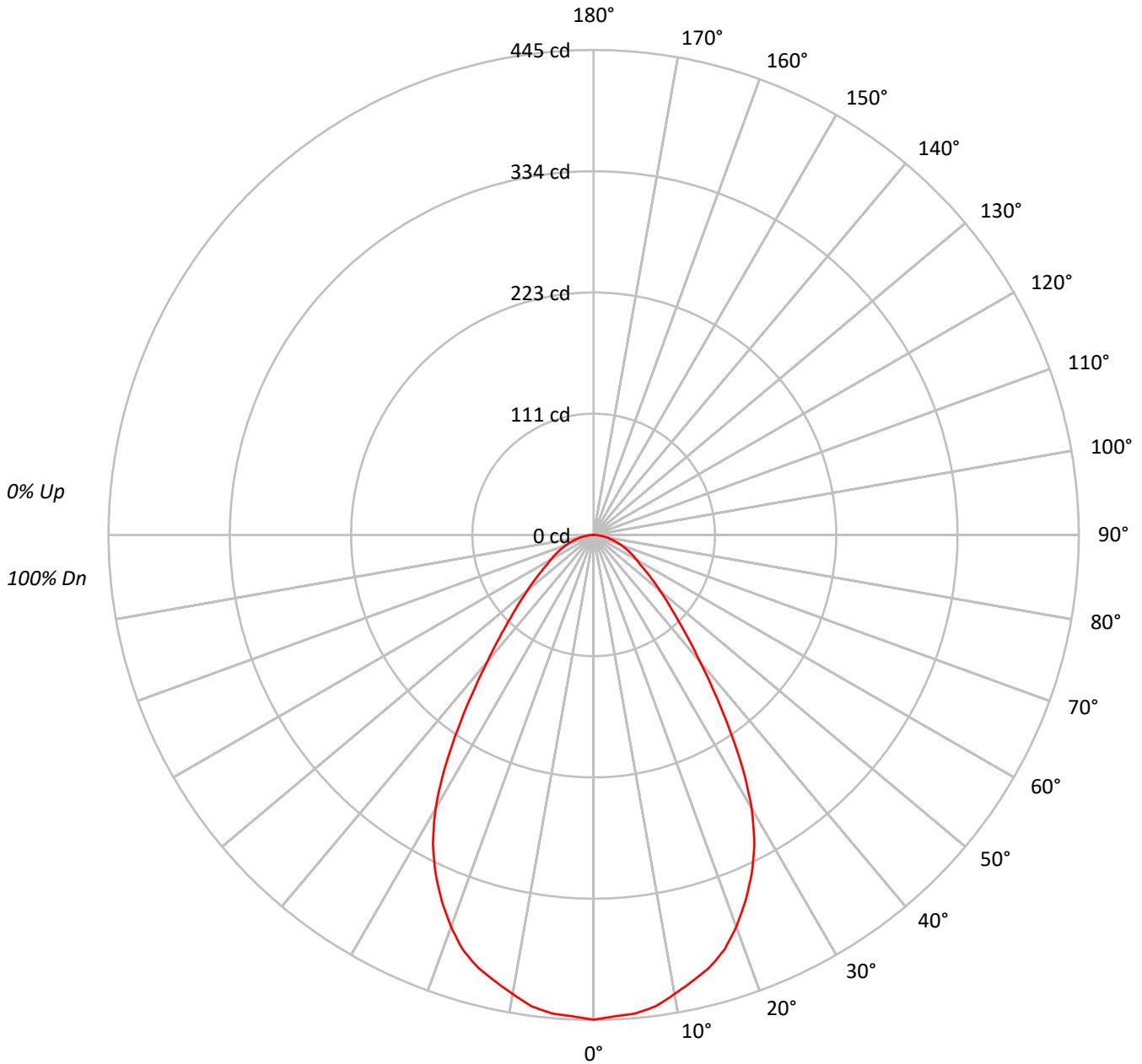
Lumens per Lamp: N/A  
Luminaire Lumens: 647.2 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P581020  
CATALOG NUMBER: HCC4W05D010SL-HM40525835-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581020

CATALOG NUMBER: HCC4W05D010SL-HM40525835-41MDW

**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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

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

	0°
0°	54864
5°	54578
10°	53581
15°	52458
20°	50208
25°	46681
30°	41318
35°	32615
40°	24394
45°	18769
50°	15217
55°	12645
60°	11175
65°	10332
70°	9521
75°	8769
80°	7956
85°	6369



TEST NUMBER: P581020  
 CATALOG NUMBER: HCC4W05D010SL-HM40525835-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	6.4
10°-20°	115.2	17.8
20°-30°	156.4	24.2
30°-40°	135.5	20.9
40°-50°	85.1	13.1
50°-60°	53.5	8.3
60°-70°	35.2	5.4
70°-80°	19.4	3.0
80°-90°	5.3	0.8
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°	313.3	48.4
0°-40°	448.8	69.3
0°-60°	587.3	90.8
0°-90°	647.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	445	
5°	441	42
15°	411	115
25°	343	156
35°	217	135
45°	108	85
55°	59	54
65°	35	35
75°	18	19
85°	4	5
90°	0	



TEST NUMBER: P581020  
CATALOG NUMBER: HCC4W05D010SL-HM40525835-41MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	444.8
2.5°	442.2
5°	440.8
7.5°	436.3
10°	427.8
12.5°	419.3
15°	410.8
17.5°	399.1
20°	382.5
22.5°	363.7
25°	343.0
27.5°	319.3
30°	290.1
32.5°	254.7
35°	216.6
37.5°	181.6
40°	151.5
42.5°	127.8
45°	107.6
47.5°	92.4
50°	79.3
52.5°	68.2
55°	58.8
57.5°	50.6
60°	45.3
62.5°	40.4
65°	35.4
67.5°	30.5
70°	26.4
72.5°	22.0
75°	18.4
77.5°	14.3
80°	11.2
82.5°	7.6
85°	4.5
87.5°	1.8
90°	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°

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)