

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: P592549

Luminaire Tested: **HCC4S05D010SL-HM40525950-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S05D010SL-HM40525950-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

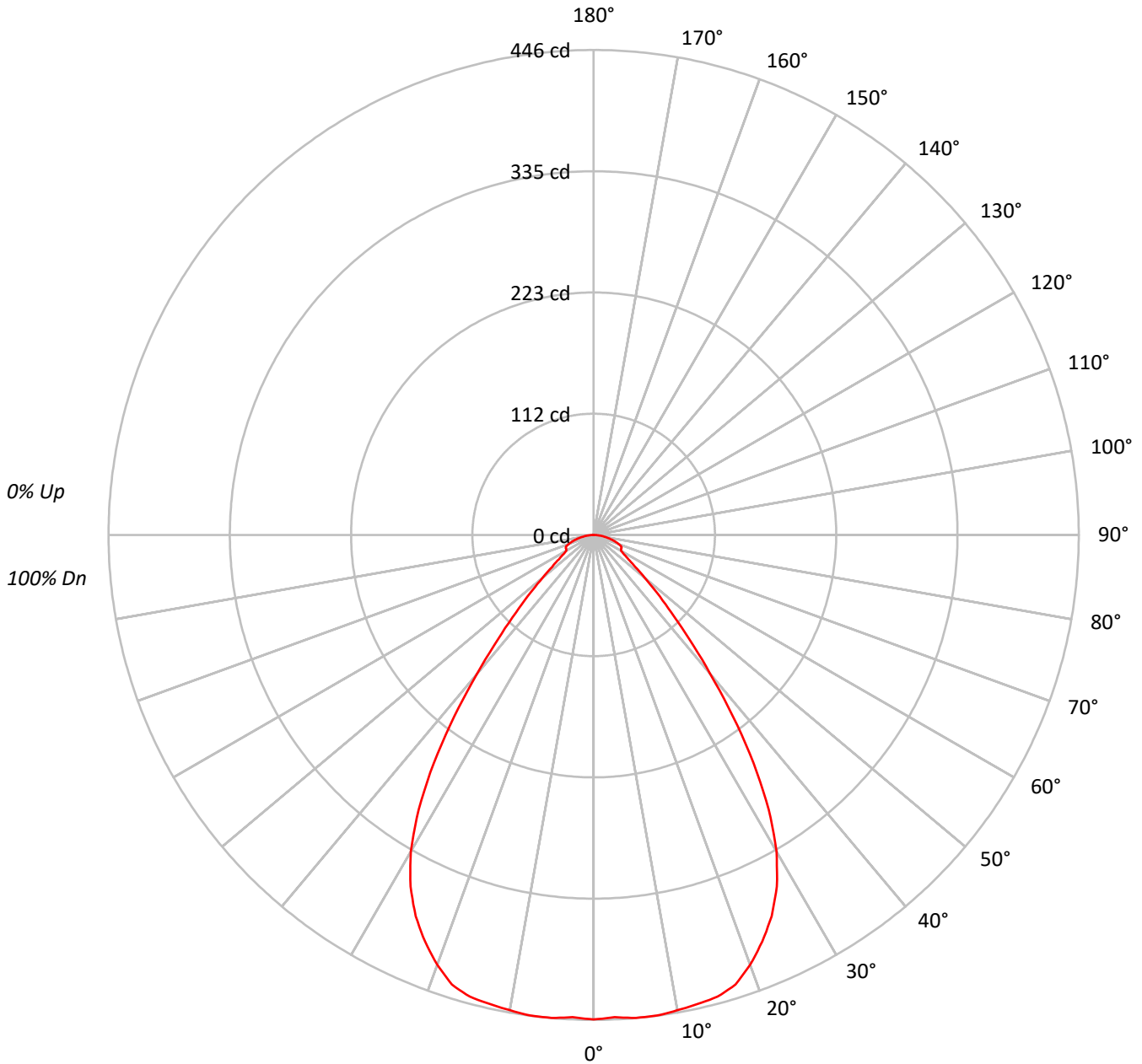
Lumens per Lamp: N/A  
Luminaire Lumens: 669.4 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P592549  
CATALOG NUMBER: HCC4S05D010SL-HM40525950-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P592549  
 CATALOG NUMBER: HCC4S05D010SL-HM40525950-41WDWB

**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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

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

	0°
0°	54963
5°	55210
10°	55598
15°	56148
20°	55209
25°	52669
30°	47870
35°	38608
40°	26793
45°	17583
50°	11782
55°	8387
60°	7179
65°	8260
70°	8836
75°	8483
80°	7671
85°	7076



TEST NUMBER: P592549  
 CATALOG NUMBER: HCC4S05D010SL-HM40525950-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.5	6.3
10°-20°	123.5	18.5
20°-30°	176.5	26.4
30°-40°	157.7	23.6
40°-50°	80.9	12.1
50°-60°	36.8	5.5
60°-70°	27.5	4.1
70°-80°	18.6	2.8
80°-90°	5.5	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°	342.5	51.2
0°-40°	500.2	74.7
0°-60°	617.8	92.3
0°-90°	669.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	446	
5°	446	42
15°	440	124
25°	387	176
35°	256	158
45°	101	81
55°	39	37
65°	28	27
75°	18	19
85°	5	5
90°	0	



TEST NUMBER: P592549  
CATALOG NUMBER: HCC4S05D010SL-HM40525950-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	445.6
2.5°	443.9
5°	445.9
7.5°	445.9
10°	443.9
12.5°	441.9
15°	439.7
17.5°	433.6
20°	420.6
22.5°	404.9
25°	387.0
27.5°	364.7
30°	336.1
32.5°	299.5
35°	256.4
37.5°	210.3
40°	166.4
42.5°	129.8
45°	100.8
47.5°	78.8
50°	61.4
52.5°	48.1
55°	39.0
57.5°	32.8
60°	29.1
62.5°	28.3
65°	28.3
67.5°	27.4
70°	24.5
72.5°	21.1
75°	17.8
77.5°	14.1
80°	10.8
82.5°	7.8
85°	5.0
87.5°	2.0
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)