

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: P579964

Luminaire Tested: **HCC4S15D010BZ-HM40525940-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S15D010BZ-HM40525940-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

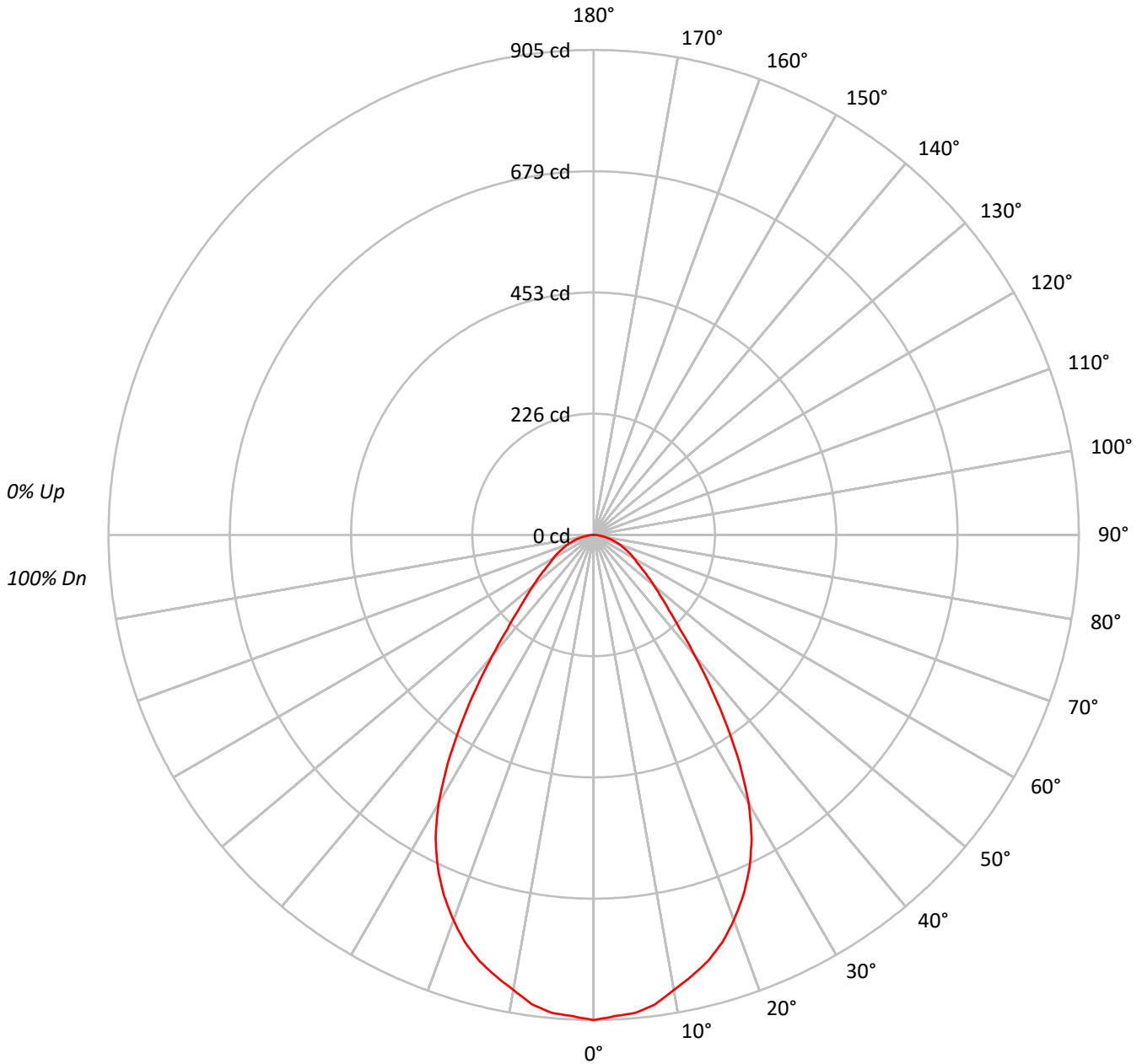
Lumens per Lamp: N/A  
Luminaire Lumens: 1271.2 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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: P579964  
CATALOG NUMBER: HCC4S15D010BZ-HM40525940-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P579964

CATALOG NUMBER: HCC4S15D010BZ-HM40525940-41NDW

**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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			

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

	0°
0°	111677
5°	110853
10°	107964
15°	105120
20°	100415
25°	93539
30°	82380
35°	64974
40°	47162
45°	34643
50°	28189
55°	23634
60°	21437
65°	19671
70°	18320
75°	16728
80°	15130
85°	13020



TEST NUMBER: P579964  
 CATALOG NUMBER: HCC4S15D010BZ-HM40525940-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.4	6.6
10°-20°	230.9	18.2
20°-30°	313.0	24.6
30°-40°	268.6	21.1
40°-50°	158.6	12.5
50°-60°	100.5	7.9
60°-70°	67.5	5.3
70°-80°	37.3	2.9
80°-90°	10.5	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°	628.3	49.4
0°-40°	896.9	70.6
0°-60°	1155.9	90.9
0°-90°	1271.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	905	
5°	895	84
15°	823	231
25°	687	313
35°	432	269
45°	199	159
55°	110	100
65°	67	68
75°	35	37
85°	9	10
90°	0	



TEST NUMBER: P579964

CATALOG NUMBER: HCC4S15D010BZ-HM40525940-41NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	905.4
2.5°	898.9
5°	895.3
7.5°	883.2
10°	862.0
12.5°	843.5
15°	823.2
17.5°	797.3
20°	765.0
22.5°	728.9
25°	687.3
27.5°	638.4
30°	578.4
32.5°	507.2
35°	431.5
37.5°	358.5
40°	292.9
42.5°	238.3
45°	198.6
47.5°	170.0
50°	146.9
52.5°	127.5
55°	109.9
57.5°	96.1
60°	86.9
62.5°	77.7
65°	67.4
67.5°	59.1
70°	50.8
72.5°	42.5
75°	35.1
77.5°	27.7
80°	21.3
82.5°	14.8
85°	9.2
87.5°	3.8
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)