

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: P581056

Luminaire Tested: **HCC4S05D010BZ-HM40525927-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581056  
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: HCC4S05D010BZ-HM40525927-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

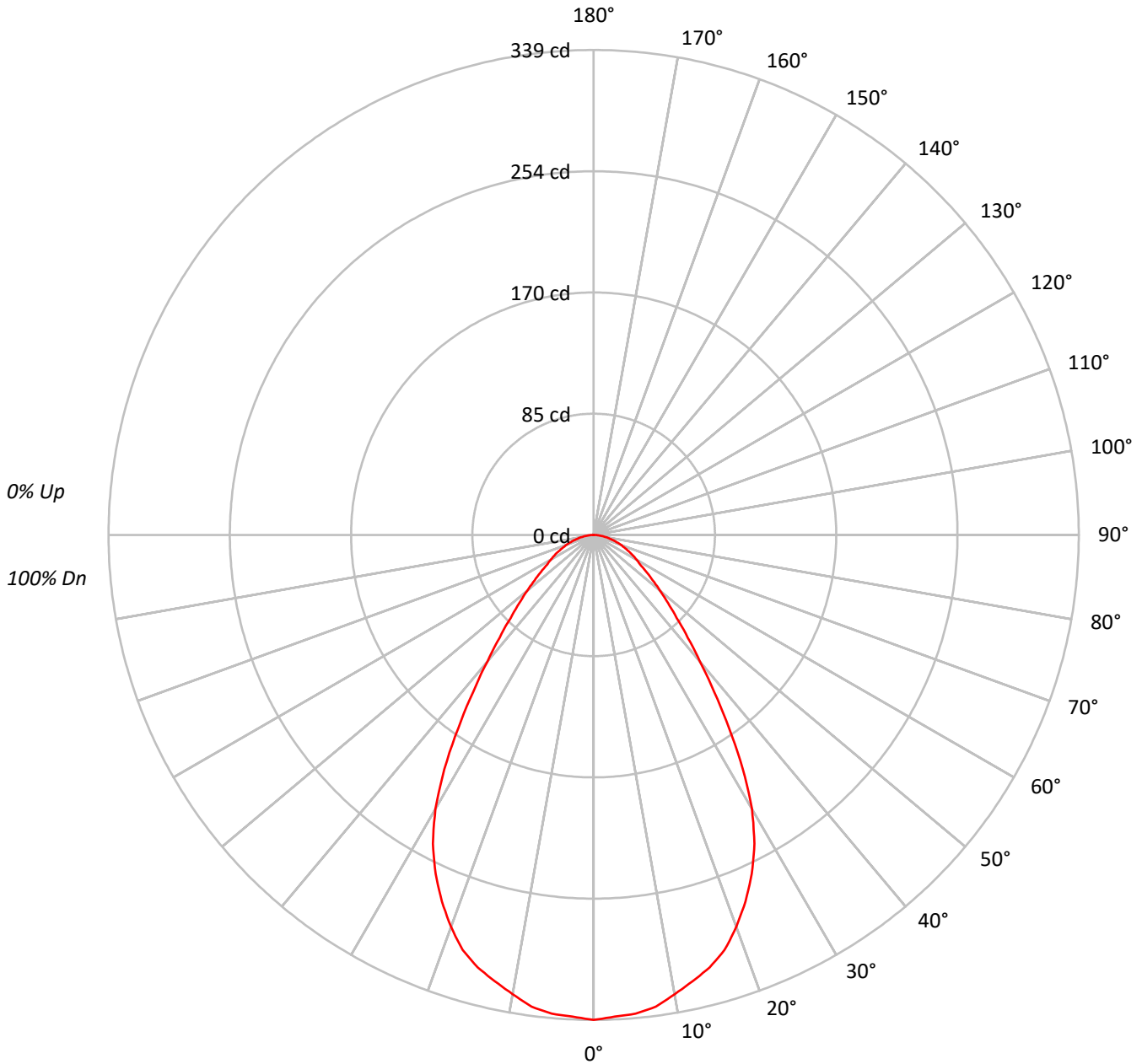
Lumens per Lamp: N/A  
Luminaire Lumens: 493.2 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P581056  
CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581056

CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41MDW

**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
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	41814
5°	41602
10°	40831
15°	39969
20°	38263
25°	35576
30°	31491
35°	24845
40°	18597
45°	14321
50°	11609
55°	9613
60°	8511
65°	7880
70°	7285
75°	6672
80°	6038
85°	4812



TEST NUMBER: P581056  
 CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.8	6.4
10°-20°	87.8	17.8
20°-30°	119.2	24.2
30°-40°	103.2	20.9
40°-50°	64.8	13.1
50°-60°	40.8	8.3
60°-70°	26.8	5.4
70°-80°	14.8	3.0
80°-90°	4.0	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°	238.7	48.4
0°-40°	342.0	69.3
0°-60°	447.6	90.7
0°-90°	493.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	493.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	339	
5°	336	32
15°	313	88
25°	261	119
35°	165	103
45°	82	65
55°	45	41
65°	27	27
75°	14	15
85°	3	4
90°	0	



TEST NUMBER: P581056  
CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	339.0
2.5°	337.0
5°	336.0
7.5°	332.6
10°	326.0
12.5°	319.5
15°	313.0
17.5°	304.2
20°	291.5
22.5°	277.2
25°	261.4
27.5°	243.3
30°	221.1
32.5°	194.1
35°	165.0
37.5°	138.4
40°	115.5
42.5°	97.4
45°	82.1
47.5°	70.4
50°	60.5
52.5°	52.0
55°	44.7
57.5°	38.6
60°	34.5
62.5°	30.8
65°	27.0
67.5°	23.3
70°	20.2
72.5°	16.8
75°	14.0
77.5°	10.9
80°	8.5
82.5°	5.8
85°	3.4
87.5°	1.4
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)