

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: P580424

Luminaire Tested: **HCC4W35D010MB-HM43040830-41NDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W35D010MB-HM43040830-41NDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

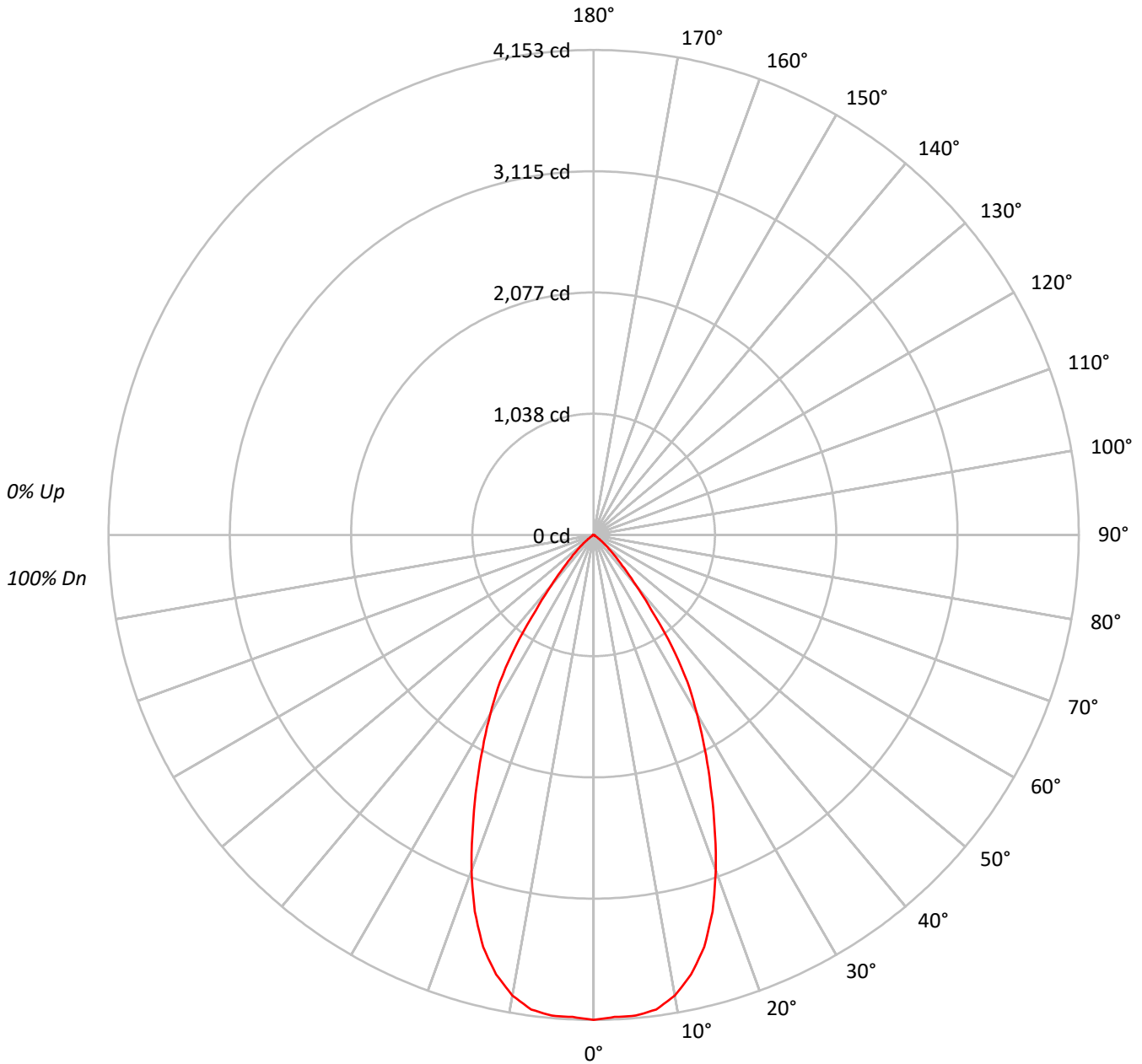
Lumens per Lamp: N/A  
Luminaire Lumens: 3478.2 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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: P580424  
CATALOG NUMBER: HCC4W35D010MB-HM43040830-41NDC

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P580424

CATALOG NUMBER: HCC4W35D010MB-HM43040830-41NDC

**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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101		101	100	98		97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	91	87	101	95	90	87	92	88	85		90	87	84		88	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79		85	81	78		83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73		80	76	73		78	75	72	71
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64		71	67	64		70	66	63	62
8	80	70	64	60	78	70	64	60	69	64	60		68	63	60		67	62	59	58
9	76	66	61	57	75	66	60	57	65	60	56		64	59	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

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

	0°
0°	512291
5°	511636
10°	501670
15°	466476
20°	401175
25°	322264
30°	251612
35°	176160
40°	90395
45°	45894
50°	22989
55°	8580
60°	3454
65°	2743
70°	1695
75°	1144
80°	1705
85°	0



TEST NUMBER: P580424  
 CATALOG NUMBER: HCC4W35D010MB-HM43040830-41NDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.7	11.2
10°-20°	1008.4	29.0
20°-30°	1086.3	31.2
30°-40°	713.7	20.5
40°-50°	221.9	6.4
50°-60°	43.5	1.3
60°-70°	9.3	0.3
70°-80°	3.4	0.1
80°-90°	1.0	0.0
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°	2485.3	71.5
0°-40°	3199.0	92.0
0°-60°	3464.5	99.6
0°-90°	3478.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3478.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4153	
5°	4132	391
15°	3653	1008
25°	2368	1086
35°	1170	714
45°	263	222
55°	40	44
65°	9	9
75°	2	3
85°	0	1
90°	0	



TEST NUMBER: P580424  
CATALOG NUMBER: HCC4W35D010MB-HM43040830-41NDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4153.3
2.5°	4132.2
5°	4132.2
7.5°	4099.3
10°	4005.4
12.5°	3855.0
15°	3653.0
17.5°	3382.8
20°	3056.3
22.5°	2703.9
25°	2367.9
27.5°	2055.6
30°	1766.6
32.5°	1494.0
35°	1169.9
37.5°	815.1
40°	561.4
42.5°	387.7
45°	263.1
47.5°	178.5
50°	119.8
52.5°	75.2
55°	39.9
57.5°	16.4
60°	14.0
62.5°	11.8
65°	9.4
67.5°	7.1
70°	4.7
72.5°	4.7
75°	2.4
77.5°	2.4
80°	2.4
82.5°	2.4
85°	0.0
87.5°	0.0
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)