

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: P582460

Luminaire Tested: **HCC6S40D010MB-HM63040835-61WDBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S40D010MB-HM63040835-61WDBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

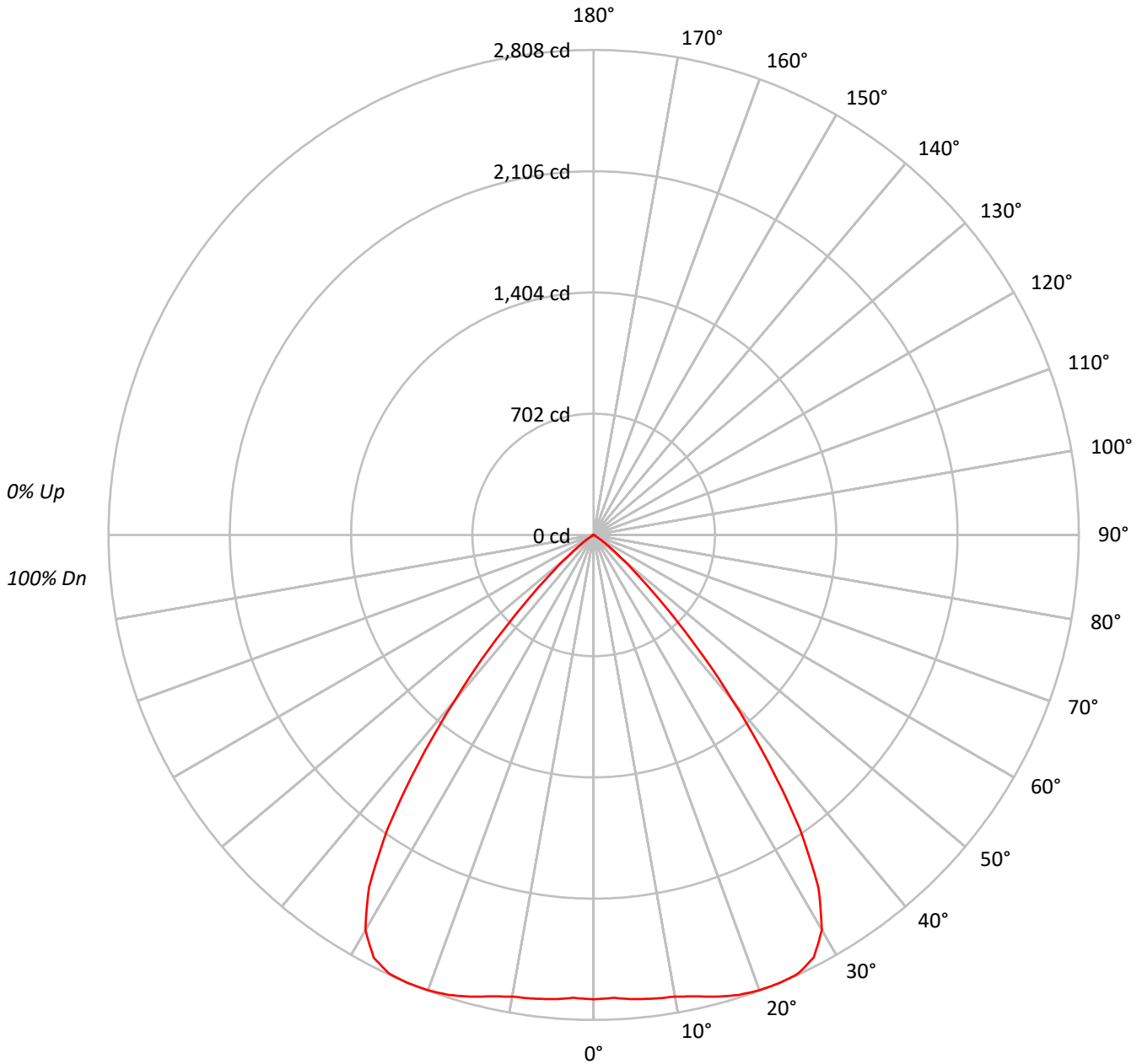
Lumens per Lamp: N/A  
Luminaire Lumens: 4150.8 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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: P582460  
CATALOG NUMBER: HCC6S40D010MB-HM63040835-61WDDB

### Luminous Intensity Polar Plot





TEST NUMBER: P582460  
 CATALOG NUMBER: HCC6S40D010MB-HM63040835-61WDBB

**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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86	85	85	85	85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65	65	65	65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59	59	59	59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43	43	43	43

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

	0°
0°	147406
5°	148492
10°	151083
15°	157067
20°	163663
25°	169498
30°	167228
35°	139334
40°	89353
45°	44617
50°	17705
55°	6012
60°	1721
65°	1232
70°	1010
75°	1334
80°	1010
85°	0



TEST NUMBER: P582460  
 CATALOG NUMBER: HCC6S40D010MB-HM63040835-61WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.0	6.2
10°-20°	785.0	18.9
20°-30°	1281.7	30.9
30°-40°	1256.4	30.3
40°-50°	481.7	11.6
50°-60°	70.7	1.7
60°-70°	10.5	0.3
70°-80°	5.4	0.1
80°-90°	1.3	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°	2324.7	56.0
0°-40°	3581.1	86.3
0°-60°	4133.6	99.6
0°-90°	4150.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4150.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2689	
5°	2698	258
15°	2768	785
25°	2802	1282
35°	2082	1256
45°	576	482
55°	63	71
65°	10	10
75°	6	5
85°	0	1
90°	0	



TEST NUMBER: P582460  
CATALOG NUMBER: HCC6S40D010MB-HM63040835-61WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2688.9
2.5°	2682.7
5°	2698.4
7.5°	2707.8
10°	2714.1
12.5°	2736.1
15°	2767.5
17.5°	2792.7
20°	2805.4
22.5°	2808.4
25°	2802.2
27.5°	2758.2
30°	2641.8
32.5°	2421.7
35°	2082.0
37.5°	1663.7
40°	1248.6
42.5°	890.1
45°	575.5
47.5°	352.2
50°	207.6
52.5°	119.5
55°	62.9
57.5°	28.4
60°	15.7
62.5°	12.5
65°	9.5
67.5°	9.5
70°	6.3
72.5°	6.3
75°	6.3
77.5°	3.2
80°	3.2
82.5°	3.2
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)