

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: P582452

Luminaire Tested: **HCC6W40D010MB-HM63040835-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010MB-HM63040835-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

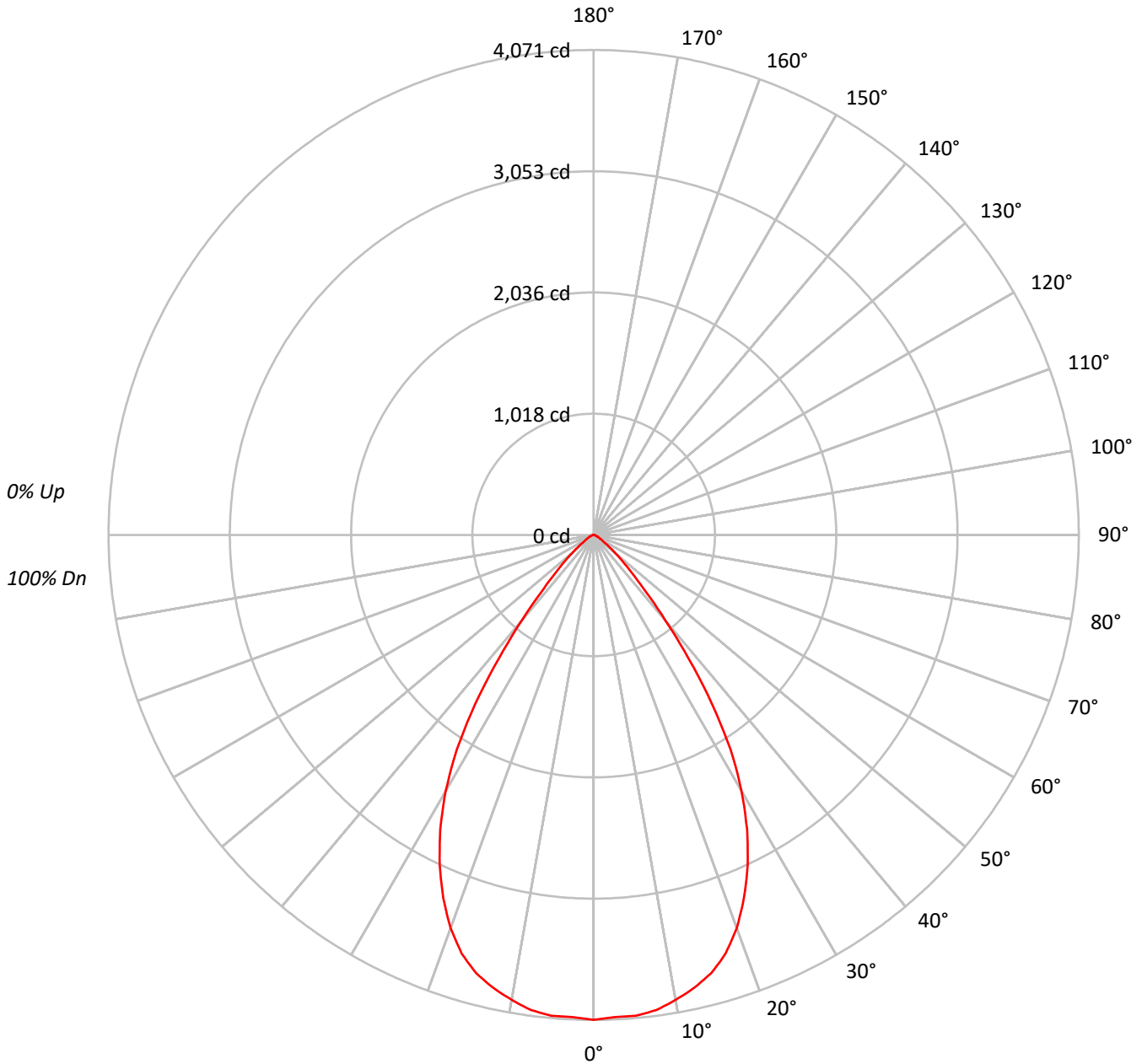
Lumens per Lamp: N/A  
Luminaire Lumens: 4455.7 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582452  
CATALOG NUMBER: HCC6W40D010MB-HM63040835-61MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582452  
 CATALOG NUMBER: HCC6W40D010MB-HM63040835-61MDH

**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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

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

	0°
0°	223156
5°	222969
10°	220643
15°	216216
20°	204814
25°	184958
30°	157119
35°	116004
40°	67083
45°	35608
50°	20127
55°	10523
60°	6896
65°	4890
70°	3526
75°	2648
80°	1989
85°	2013



TEST NUMBER: P582452  
 CATALOG NUMBER: HCC6W40D010MB-HM63040835-61MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.0	8.6
10°-20°	1065.5	23.9
20°-30°	1390.7	31.2
30°-40°	1062.8	23.9
40°-50°	384.8	8.6
50°-60°	111.7	2.5
60°-70°	40.0	0.9
70°-80°	13.7	0.3
80°-90°	2.6	0.1
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°	2840.2	63.7
0°-40°	3903.0	87.6
0°-60°	4399.5	98.7
0°-90°	4455.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4455.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4071	
5°	4052	384
15°	3810	1066
25°	3058	1391
35°	1733	1063
45°	459	385
55°	110	112
65°	38	40
75°	12	14
85°	3	3
90°	0	



TEST NUMBER: P582452  
CATALOG NUMBER: HCC6W40D010MB-HM63040835-61MDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4070.7
2.5°	4051.8
5°	4051.8
7.5°	4023.6
10°	3963.7
12.5°	3894.6
15°	3809.7
17.5°	3683.8
20°	3510.8
22.5°	3296.8
25°	3057.8
27.5°	2787.2
30°	2482.1
32.5°	2139.2
35°	1733.4
37.5°	1308.7
40°	937.4
42.5°	648.0
45°	459.3
47.5°	330.3
50°	236.0
52.5°	166.7
55°	110.1
57.5°	78.6
60°	62.9
62.5°	50.4
65°	37.7
67.5°	31.5
70°	22.0
72.5°	15.7
75°	12.5
77.5°	9.5
80°	6.3
82.5°	3.2
85°	3.2
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)