

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: P582457

Luminaire Tested: **HCC6W40D010SL-HM63040835-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010SL-HM63040835-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

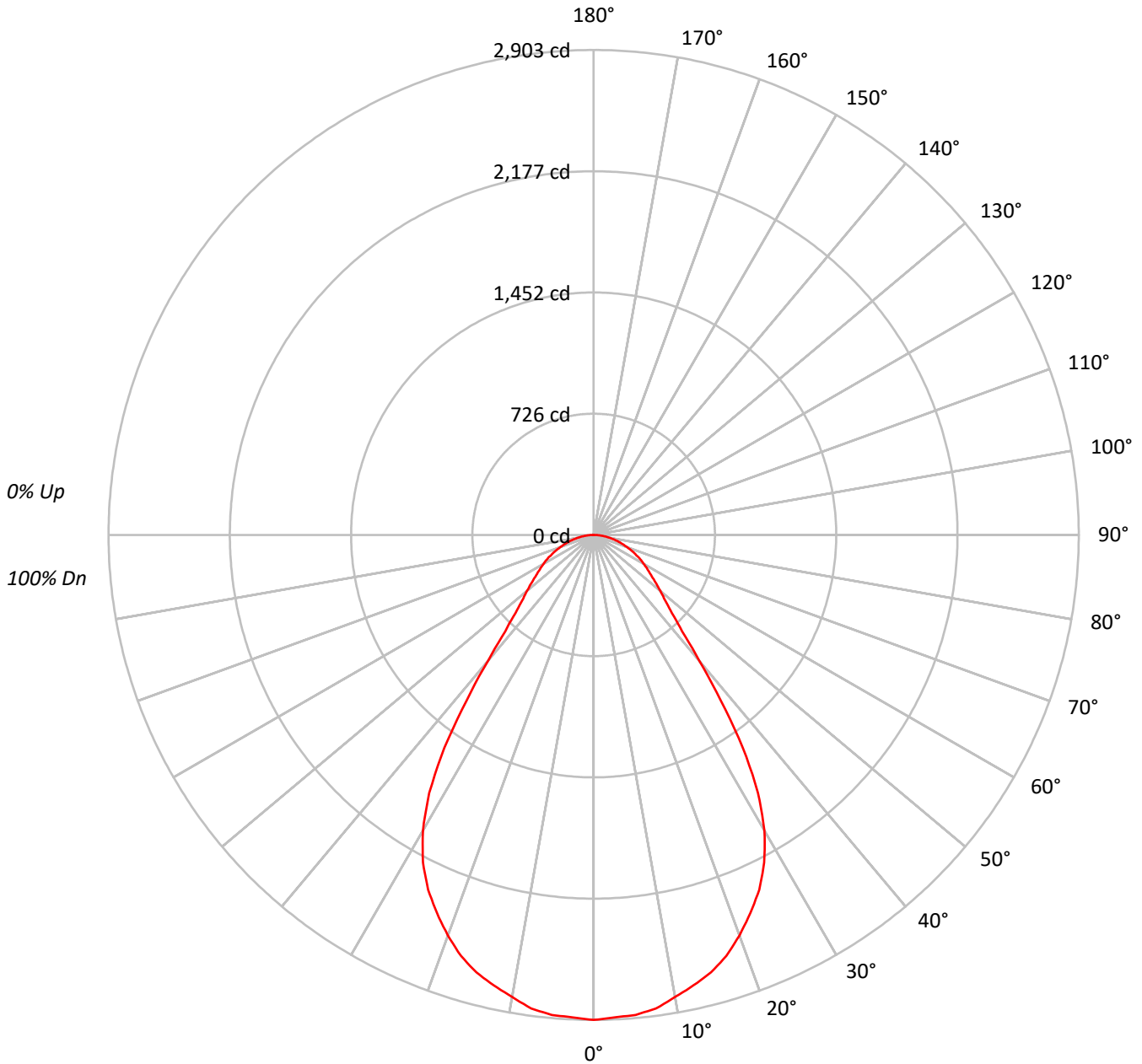
Lumens per Lamp: N/A  
Luminaire Lumens: 4452.7 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582457  
CATALOG NUMBER: HCC6W40D010SL-HM63040835-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582457

CATALOG NUMBER: HCC6W40D010SL-HM63040835-61PSMDW

**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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

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

	0°
0°	159143
5°	158711
10°	156349
15°	153871
20°	148810
25°	141734
30°	129412
35°	104193
40°	70224
45°	51215
50°	44263
55°	39979
60°	37936
65°	35892
70°	33788
75°	31983
80°	29770
85°	27738



TEST NUMBER: P582457  
 CATALOG NUMBER: HCC6W40D010SL-HM63040835-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.0	6.1
10°-20°	761.4	17.1
20°-30°	1069.7	24.0
30°-40°	952.2	21.4
40°-50°	532.2	12.0
50°-60°	379.1	8.5
60°-70°	275.8	6.2
70°-80°	159.7	3.6
80°-90°	49.6	1.1
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°	2104.0	47.3
0°-40°	3056.2	68.6
0°-60°	3967.5	89.1
0°-90°	4452.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4452.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2903	
5°	2884	273
15°	2711	761
25°	2343	1070
35°	1557	952
45°	661	532
55°	418	379
65°	277	276
75°	151	160
85°	44	50
90°	0	



TEST NUMBER: P582457  
CATALOG NUMBER: HCC6W40D010SL-HM63040835-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2903.0
2.5°	2890.5
5°	2884.1
7.5°	2859.1
10°	2808.7
12.5°	2761.5
15°	2711.2
17.5°	2642.0
20°	2550.8
22.5°	2450.2
25°	2343.2
27.5°	2211.0
30°	2044.4
32.5°	1830.5
35°	1556.9
37.5°	1248.7
40°	981.3
42.5°	783.2
45°	660.6
47.5°	578.8
50°	519.0
52.5°	465.5
55°	418.3
57.5°	380.5
60°	346.0
62.5°	314.6
65°	276.7
67.5°	245.3
70°	210.8
72.5°	179.3
75°	151.0
77.5°	122.7
80°	94.3
82.5°	69.2
85°	44.1
87.5°	22.0
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)