

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: P593279

Luminaire Tested: **HCC6W40D010BZ-HM63040850-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593279  
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: HCC6W40D010BZ-HM63040850-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

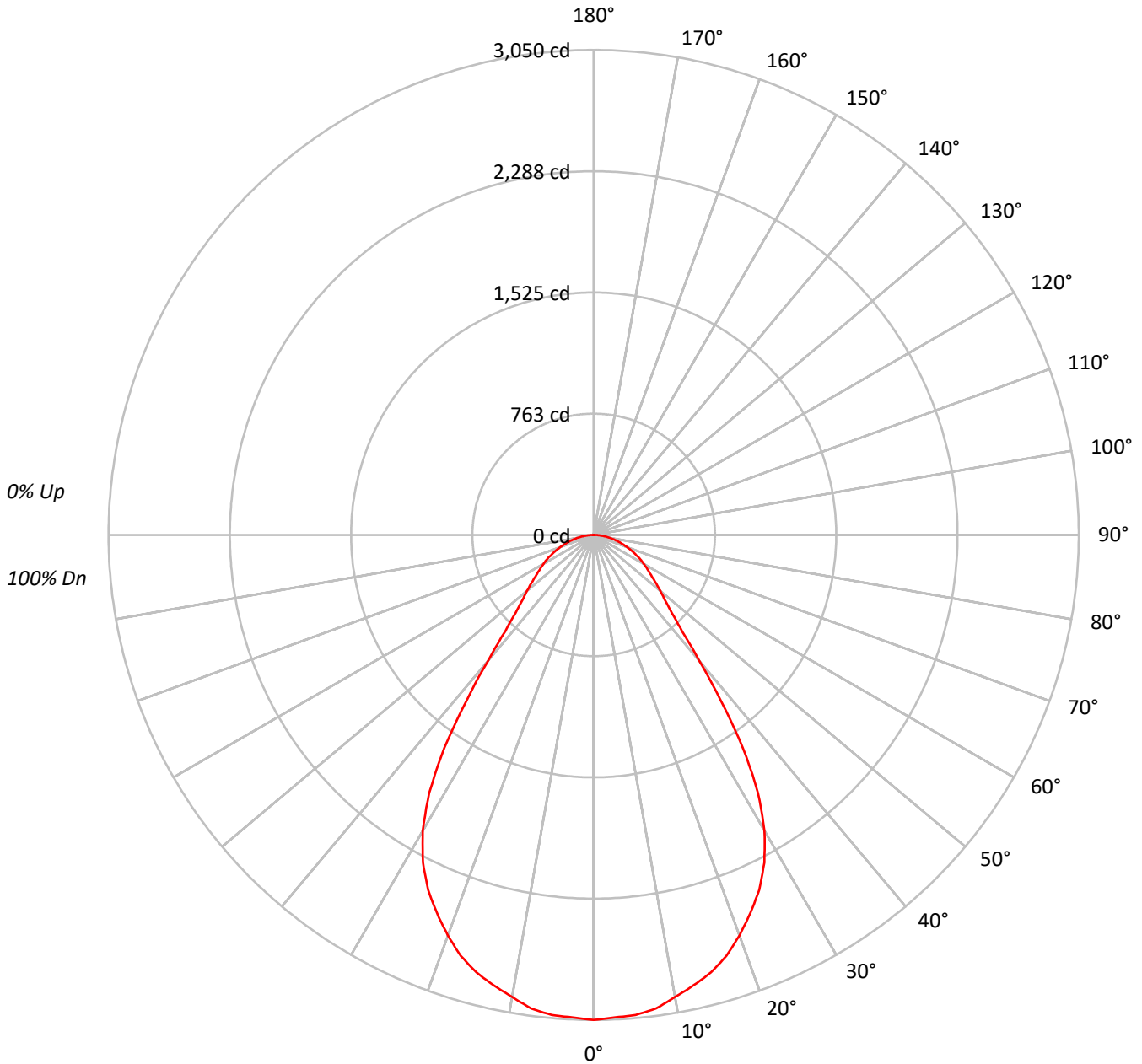
Lumens per Lamp: N/A  
Luminaire Lumens: 4678.4 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P593279  
CATALOG NUMBER: HCC6W40D010BZ-HM63040850-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593279  
 CATALOG NUMBER: HCC6W40D010BZ-HM63040850-61PSMDW

**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		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°	167218
5°	166762
10°	164276
15°	161669
20°	156353
25°	148920
30°	135977
35°	109473
40°	73788
45°	53812
50°	46506
55°	42006
60°	39854
65°	37721
70°	35503
75°	33614
80°	31317
85°	29122



TEST NUMBER: P593279  
 CATALOG NUMBER: HCC6W40D010BZ-HM63040850-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.8	6.1
10°-20°	800.0	17.1
20°-30°	1123.9	24.0
30°-40°	1000.5	21.4
40°-50°	559.1	12.0
50°-60°	398.3	8.5
60°-70°	289.8	6.2
70°-80°	167.8	3.6
80°-90°	52.2	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°	2210.7	47.3
0°-40°	3211.2	68.6
0°-60°	4168.7	89.1
0°-90°	4678.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4678.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3050	
5°	3030	287
15°	2849	800
25°	2462	1124
35°	1636	1000
45°	694	559
55°	440	398
65°	291	290
75°	159	168
85°	46	52
90°	0	



TEST NUMBER: P593279  
CATALOG NUMBER: HCC6W40D010BZ-HM63040850-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3050.3
2.5°	3037.0
5°	3030.4
7.5°	3004.0
10°	2951.1
12.5°	2901.5
15°	2848.6
17.5°	2776.0
20°	2680.1
22.5°	2574.4
25°	2462.0
27.5°	2323.3
30°	2148.1
32.5°	1923.4
35°	1635.8
37.5°	1312.0
40°	1031.1
42.5°	822.9
45°	694.1
47.5°	608.1
50°	545.3
52.5°	489.1
55°	439.5
57.5°	399.9
60°	363.5
62.5°	330.4
65°	290.8
67.5°	257.7
70°	221.5
72.5°	188.4
75°	158.7
77.5°	128.9
80°	99.2
82.5°	72.7
85°	46.3
87.5°	23.1
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)