

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: P582721

Luminaire Tested: **HCC6S50D010BZ-HM64560830-61MDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S50D010BZ-HM64560830-61MDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

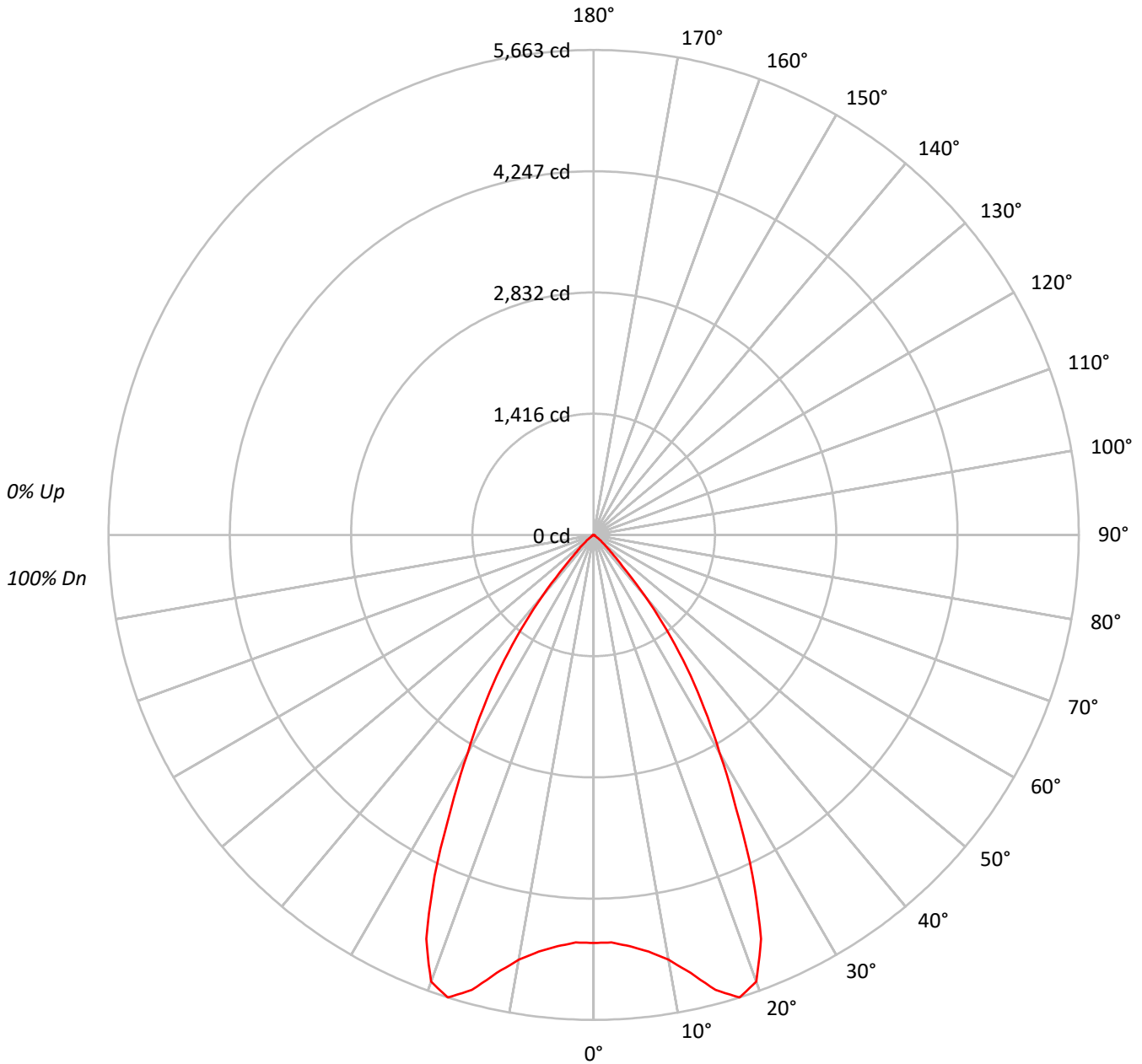
Lumens per Lamp: N/A  
Luminaire Lumens: 5499.2 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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: P582721  
CATALOG NUMBER: HCC6S50D010BZ-HM64560830-61MDC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582721

CATALOG NUMBER: HCC6S50D010BZ-HM64560830-61MDC

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20		
RC	80				70				50				30				10		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
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	99	98	97	96	95	94	
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87	
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81	
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75	
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70	
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65	
7	83	74	68	64	82	73	68	63	72	67	63	71	66	63	70	66	62	61	
8	79	70	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57	
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54	
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50	

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

	0°
0°	261147
5°	265210
10°	280317
15°	312113
20°	323679
25°	265570
30°	186086
35°	126953
40°	66131
45°	23250
50°	10405
55°	3326
60°	1919
65°	1362
70°	1122
75°	741
80°	0
85°	0



TEST NUMBER: P582721  
 CATALOG NUMBER: HCC6S50D010BZ-HM64560830-61MDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.8	8.5
10°-20°	1546.7	28.1
20°-30°	1969.3	35.8
30°-40°	1173.6	21.3
40°-50°	284.6	5.2
50°-60°	43.7	0.8
60°-70°	10.8	0.2
70°-80°	3.7	0.1
80°-90°	0.0	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°	3982.8	72.4
0°-40°	5156.5	93.8
0°-60°	5484.7	99.7
0°-90°	5499.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5499.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4764	
5°	4819	467
15°	5499	1547
25°	4390	1969
35°	1897	1174
45°	300	285
55°	35	44
65°	10	11
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P582721  
CATALOG NUMBER: HCC6S50D010BZ-HM64560830-61MDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4763.7
2.5°	4763.7
5°	4819.4
7.5°	4906.6
10°	5035.7
12.5°	5238.0
15°	5499.4
17.5°	5663.4
20°	5548.3
22.5°	5105.3
25°	4390.5
27.5°	3602.4
30°	2939.7
32.5°	2402.7
35°	1897.0
37.5°	1398.4
40°	924.1
42.5°	498.7
45°	299.9
47.5°	188.4
50°	122.0
52.5°	73.2
55°	34.8
57.5°	20.9
60°	17.5
62.5°	13.9
65°	10.5
67.5°	7.0
70°	7.0
72.5°	3.5
75°	3.5
77.5°	3.5
80°	0.0
82.5°	0.0
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)