

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: P582725

Luminaire Tested: **HCC6S50D010MB-HM64560830-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S50D010MB-HM64560830-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

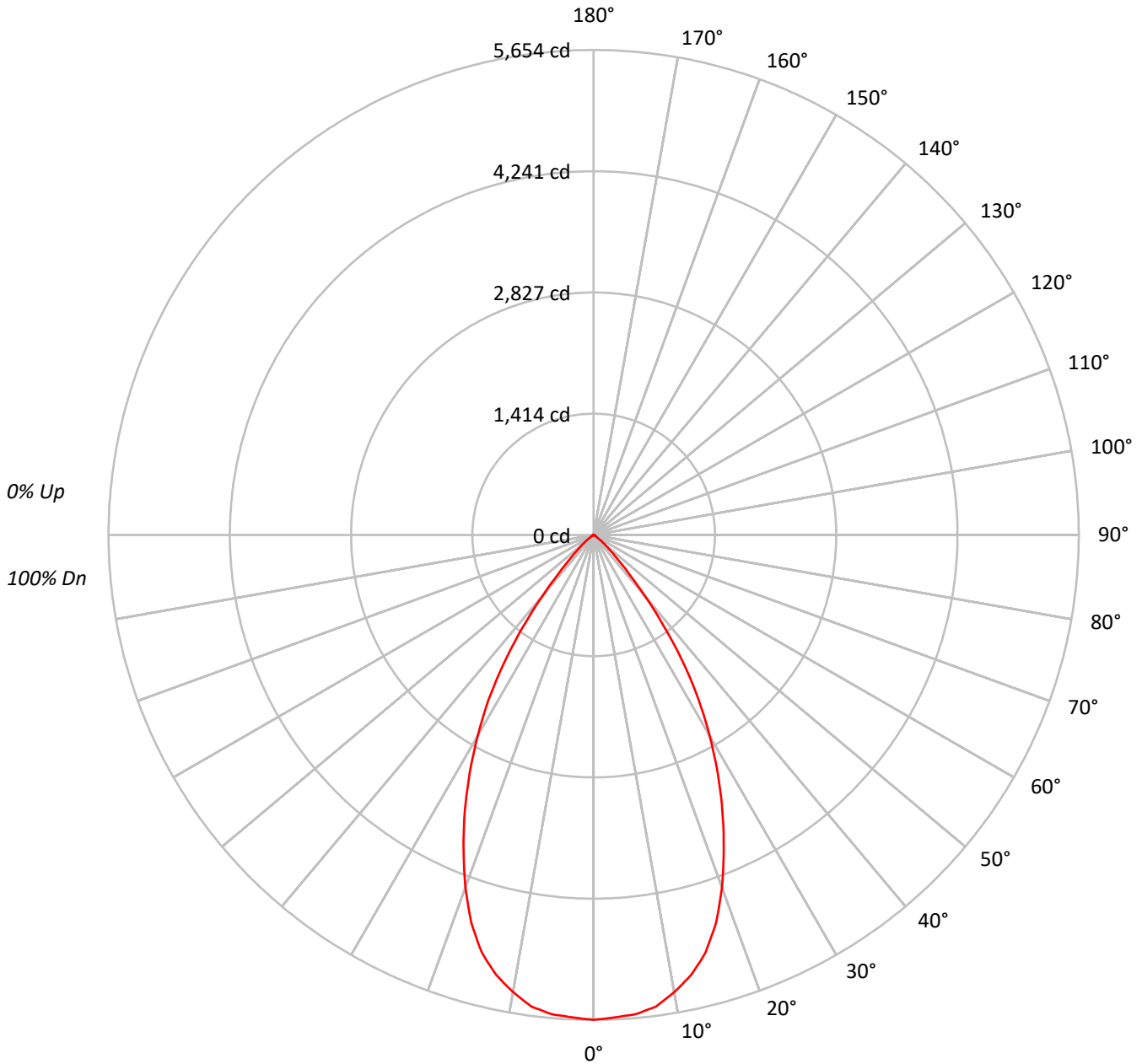
Lumens per Lamp: N/A  
Luminaire Lumens: 5063.4 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582725  
CATALOG NUMBER: HCC6S50D010MB-HM64560830-61NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582725  
 CATALOG NUMBER: HCC6S50D010MB-HM64560830-61NDH

**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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	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	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	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	67	63	72	67	63	71	66	63	70	66	62	61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

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

	0°
0°	309948
5°	308639
10°	301330
15°	286040
20°	254962
25°	214772
30°	171115
35°	122081
40°	65644
45°	28127
50°	12793
55°	4664
60°	2291
65°	1803
70°	1683
75°	741
80°	1105
85°	0



TEST NUMBER: P582725  
 CATALOG NUMBER: HCC6S50D010MB-HM64560830-61NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.4	10.5
10°-20°	1397.1	27.6
20°-30°	1618.1	32.0
30°-40°	1118.9	22.1
40°-50°	323.1	6.4
50°-60°	55.6	1.1
60°-70°	14.2	0.3
70°-80°	5.5	0.1
80°-90°	1.4	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°	3544.6	70.0
0°-40°	4663.5	92.1
0°-60°	5042.2	99.6
0°-90°	5063.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5063.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5654	
5°	5609	529
15°	5040	1397
25°	3551	1618
35°	1824	1119
45°	363	323
55°	49	56
65°	14	14
75°	4	6
85°	0	1
90°	0	



TEST NUMBER: P582725  
CATALOG NUMBER: HCC6S50D010MB-HM64560830-61NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5653.9
2.5°	5629.5
5°	5608.6
7.5°	5545.9
10°	5413.2
12.5°	5252.9
15°	5040.0
17.5°	4740.1
20°	4370.4
22.5°	3962.3
25°	3550.7
27.5°	3128.7
30°	2703.2
32.5°	2277.7
35°	1824.2
37.5°	1353.3
40°	917.3
42.5°	579.0
45°	362.8
47.5°	233.7
50°	150.0
52.5°	90.7
55°	48.8
57.5°	27.9
60°	20.9
62.5°	17.5
65°	13.9
67.5°	10.5
70°	10.5
72.5°	7.0
75°	3.5
77.5°	3.5
80°	3.5
82.5°	3.5
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)