

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: P582614

Luminaire Tested: **HCC6S45D010SL-HM64560840-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582614  
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: HCC6S45D010SL-HM64560840-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

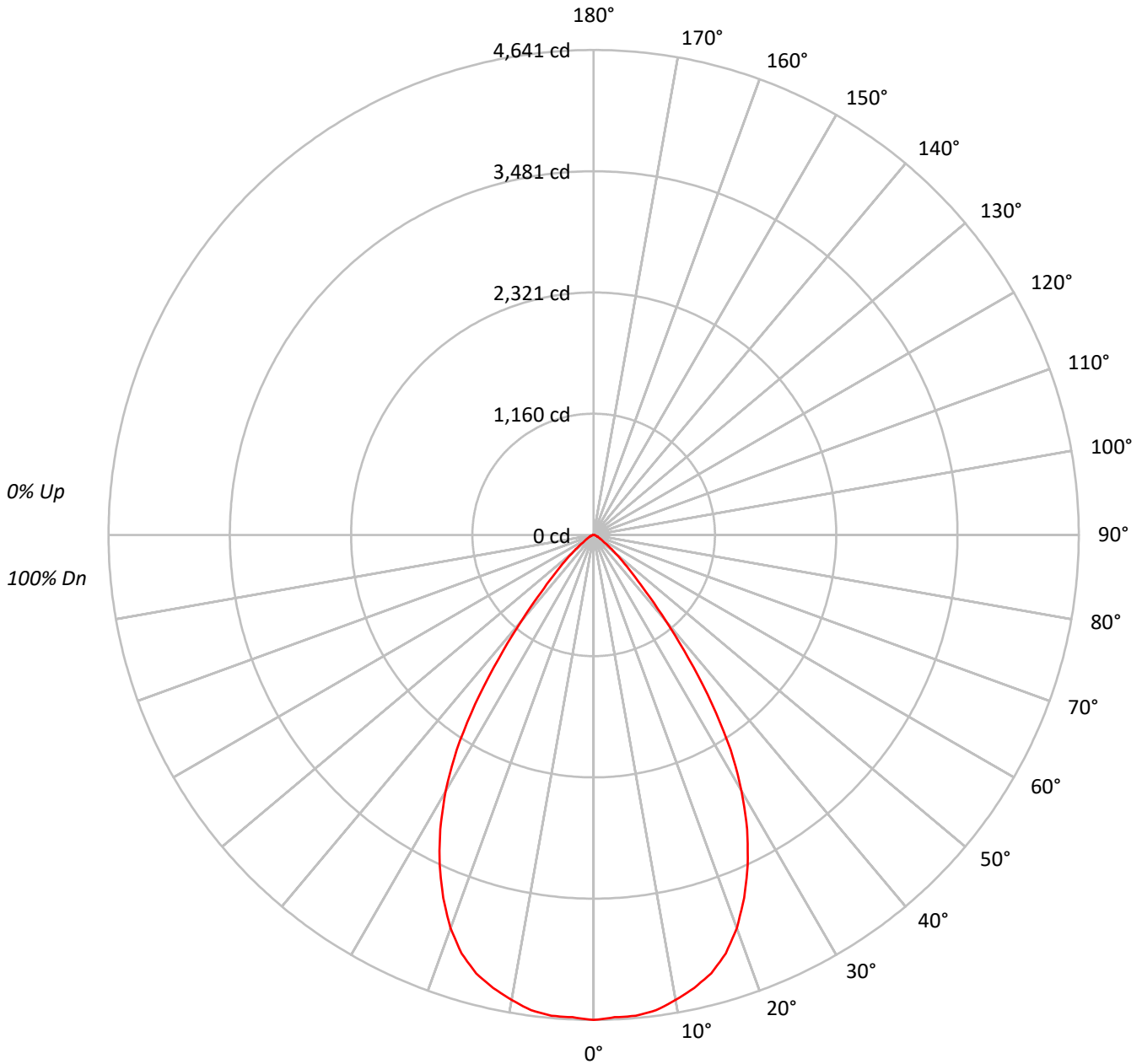
Lumens per Lamp: N/A  
Luminaire Lumens: 5080.4 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P582614  
CATALOG NUMBER: HCC6S45D010SL-HM64560840-61MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582614  
 CATALOG NUMBER: HCC6S45D010SL-HM64560840-61MDH

**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
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72			72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67			67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62			62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57			57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50			50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47			47

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

	0°
0°	254442
5°	254237
10°	251582
15°	246522
20°	233529
25°	210889
30°	179148
35°	132267
40°	76500
45°	40601
50°	22942
55°	11995
60°	7872
65°	5578
70°	4023
75°	3029
80°	2273
85°	2264



TEST NUMBER: P582614  
 CATALOG NUMBER: HCC6S45D010SL-HM64560840-61MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.8	8.6
10°-20°	1214.9	23.9
20°-30°	1585.7	31.2
30°-40°	1211.8	23.9
40°-50°	438.8	8.6
50°-60°	127.4	2.5
60°-70°	45.6	0.9
70°-80°	15.6	0.3
80°-90°	2.9	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°	3238.4	63.7
0°-40°	4450.2	87.6
0°-60°	5016.4	98.7
0°-90°	5080.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5080.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4641	
5°	4620	438
15°	4344	1215
25°	3486	1586
35°	1976	1212
45°	524	439
55°	126	127
65°	43	46
75°	14	16
85°	4	3
90°	0	



TEST NUMBER: P582614  
CATALOG NUMBER: HCC6S45D010SL-HM64560840-61MDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4641.4
2.5°	4620.0
5°	4620.0
7.5°	4587.6
10°	4519.5
12.5°	4440.6
15°	4343.7
17.5°	4200.3
20°	4003.0
22.5°	3759.1
25°	3486.5
27.5°	3178.0
30°	2830.1
32.5°	2439.1
35°	1976.4
37.5°	1492.2
40°	1069.0
42.5°	738.9
45°	523.7
47.5°	376.7
50°	269.0
52.5°	190.1
55°	125.5
57.5°	89.6
60°	71.8
62.5°	57.4
65°	43.0
67.5°	35.9
70°	25.1
72.5°	17.9
75°	14.3
77.5°	10.8
80°	7.2
82.5°	3.6
85°	3.6
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)