

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: P582689

Luminaire Tested: **HCC6S45D010MB-HM64560940-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582689  
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: HCC6S45D010MB-HM64560940-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

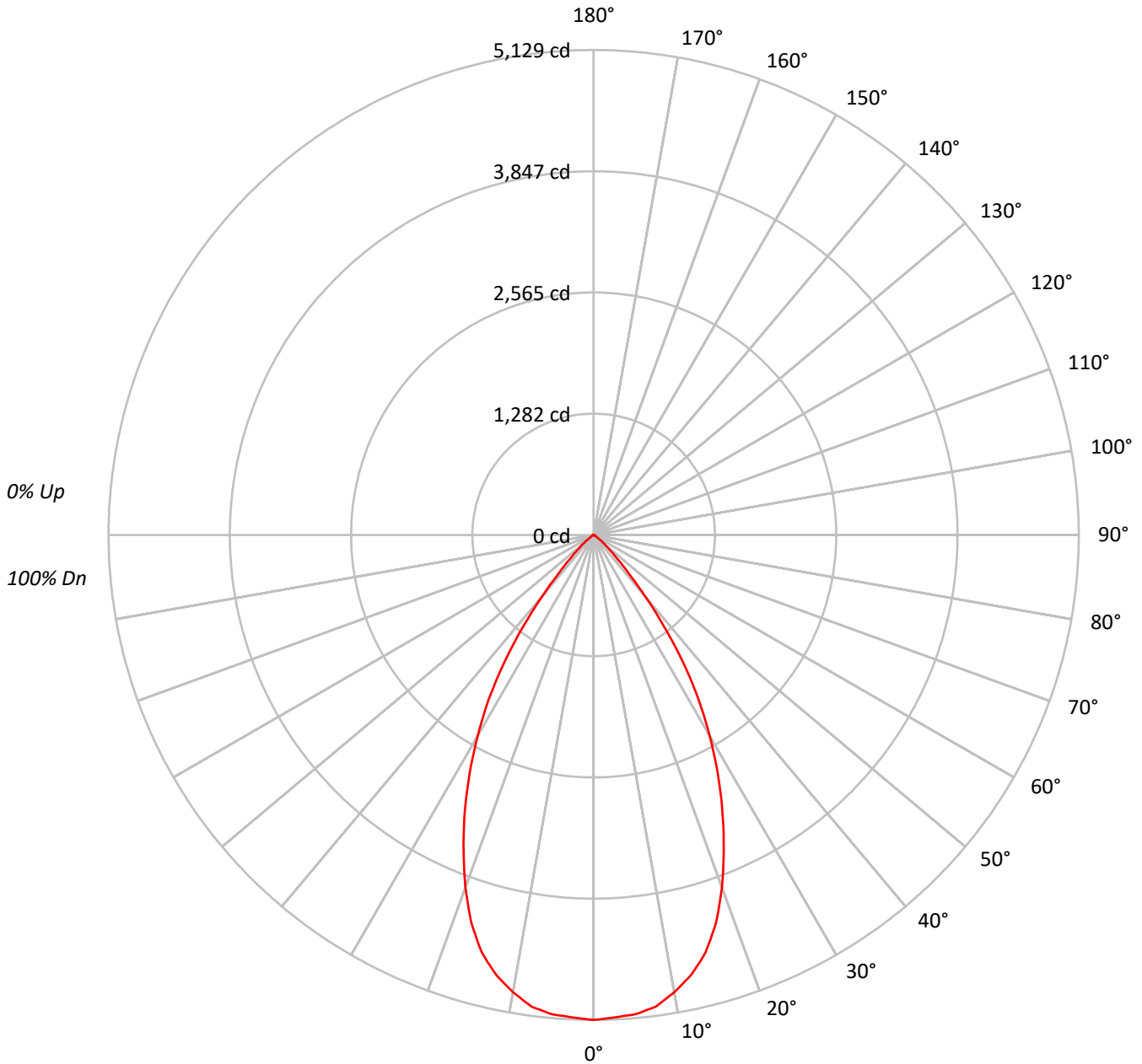
Lumens per Lamp: N/A  
Luminaire Lumens: 4593.3 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P582689  
CATALOG NUMBER: HCC6S45D010MB-HM64560940-61NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582689  
 CATALOG NUMBER: HCC6S45D010MB-HM64560940-61NDH

**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	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°	281178
5°	279985
10°	273364
15°	259485
20°	231288
25°	194836
30°	155226
35°	110751
40°	59547
45°	25507
50°	11607
55°	4234
60°	2083
65°	1647
70°	1523
75°	678
80°	1010
85°	0



TEST NUMBER: P582689  
 CATALOG NUMBER: HCC6S45D010MB-HM64560940-61NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.3	10.5
10°-20°	1267.4	27.6
20°-30°	1467.9	32.0
30°-40°	1015.0	22.1
40°-50°	293.1	6.4
50°-60°	50.4	1.1
60°-70°	12.9	0.3
70°-80°	5.0	0.1
80°-90°	1.3	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°	3215.5	70.0
0°-40°	4230.5	92.1
0°-60°	4574.0	99.6
0°-90°	4593.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4593.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5129	
5°	5088	480
15°	4572	1267
25°	3221	1468
35°	1655	1015
45°	329	293
55°	44	50
65°	13	13
75°	3	5
85°	0	1
90°	0	



TEST NUMBER: P582689  
CATALOG NUMBER: HCC6S45D010MB-HM64560940-61NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5129.1
2.5°	5106.9
5°	5087.9
7.5°	5031.0
10°	4910.8
12.5°	4765.2
15°	4572.1
17.5°	4300.1
20°	3964.6
22.5°	3594.4
25°	3221.1
27.5°	2838.2
30°	2452.2
32.5°	2066.1
35°	1654.9
37.5°	1227.7
40°	832.1
42.5°	525.3
45°	329.0
47.5°	212.0
50°	136.1
52.5°	82.2
55°	44.3
57.5°	25.3
60°	19.0
62.5°	15.8
65°	12.7
67.5°	9.5
70°	9.5
72.5°	6.3
75°	3.2
77.5°	3.2
80°	3.2
82.5°	3.2
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)