

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: P582679

Luminaire Tested: **HCC6S45D010SL-HM64560935-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S45D010SL-HM64560935-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

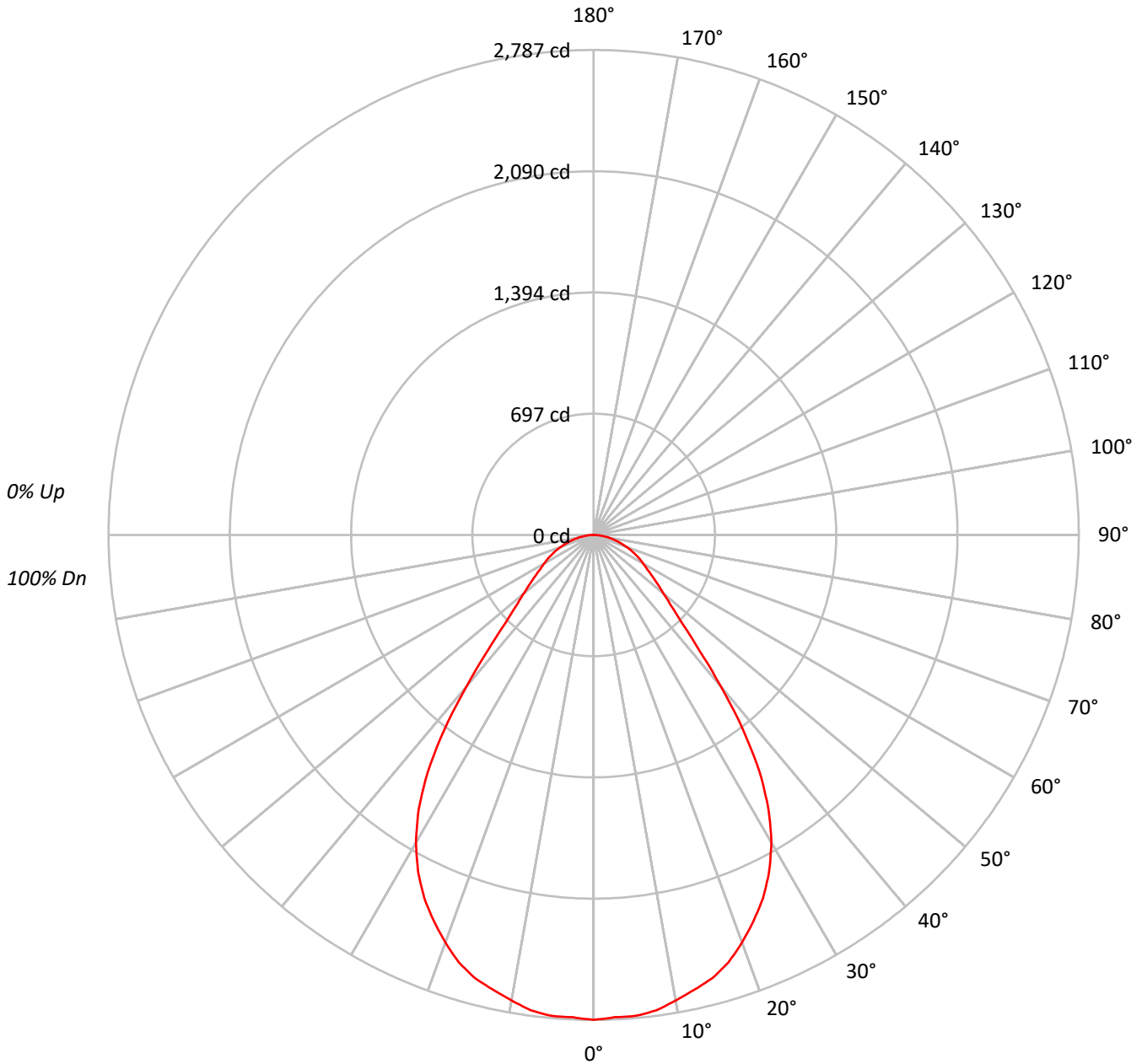
Lumens per Lamp: N/A  
Luminaire Lumens: 4477.3 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582679  
CATALOG NUMBER: HCC6S45D010SL-HM64560935-61WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582679

CATALOG NUMBER: HCC6S45D010SL-HM64560935-61WDW

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

RF	20									20									20									20									
RC	80									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																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56																			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51																			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36																			

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

	0°
0°	152784
5°	152691
10°	151222
15°	149649
20°	145420
25°	139278
30°	129260
35°	111213
40°	81181
45°	55618
50°	44715
55°	38966
60°	35973
65°	34206
70°	31944
75°	29865
80°	27118
85°	23147



TEST NUMBER: P582679  
 CATALOG NUMBER: HCC6S45D010SL-HM64560935-61WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.0	5.9
10°-20°	740.5	16.5
20°-30°	1053.2	23.5
30°-40°	1014.0	22.6
40°-50°	583.4	13.0
50°-60°	369.6	8.3
60°-70°	261.7	5.8
70°-80°	149.2	3.3
80°-90°	42.6	1.0
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°	2056.8	45.9
0°-40°	3070.8	68.6
0°-60°	4023.8	89.9
0°-90°	4477.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4477.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2787	
5°	2775	263
15°	2637	741
25°	2303	1053
35°	1662	1014
45°	717	583
55°	408	370
65°	264	262
75°	141	149
85°	37	43
90°	0	



TEST NUMBER: P582679  
CATALOG NUMBER: HCC6S45D010SL-HM64560935-61WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2787.0
2.5°	2774.7
5°	2774.7
7.5°	2756.4
10°	2716.6
12.5°	2676.7
15°	2636.8
17.5°	2575.4
20°	2492.7
22.5°	2400.8
25°	2302.6
27.5°	2183.1
30°	2042.0
32.5°	1870.3
35°	1661.8
37.5°	1407.4
40°	1134.4
42.5°	895.2
45°	717.4
47.5°	604.0
50°	524.3
52.5°	459.9
55°	407.7
57.5°	361.8
60°	328.1
62.5°	297.4
65°	263.7
67.5°	233.1
70°	199.3
72.5°	168.7
75°	141.0
77.5°	113.4
80°	85.9
82.5°	61.3
85°	36.8
87.5°	15.4
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)