

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: P582589

Luminaire Tested: **HCC6S45D010MB-HM64560830-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582589  
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: HCC6S45D010MB-HM64560830-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

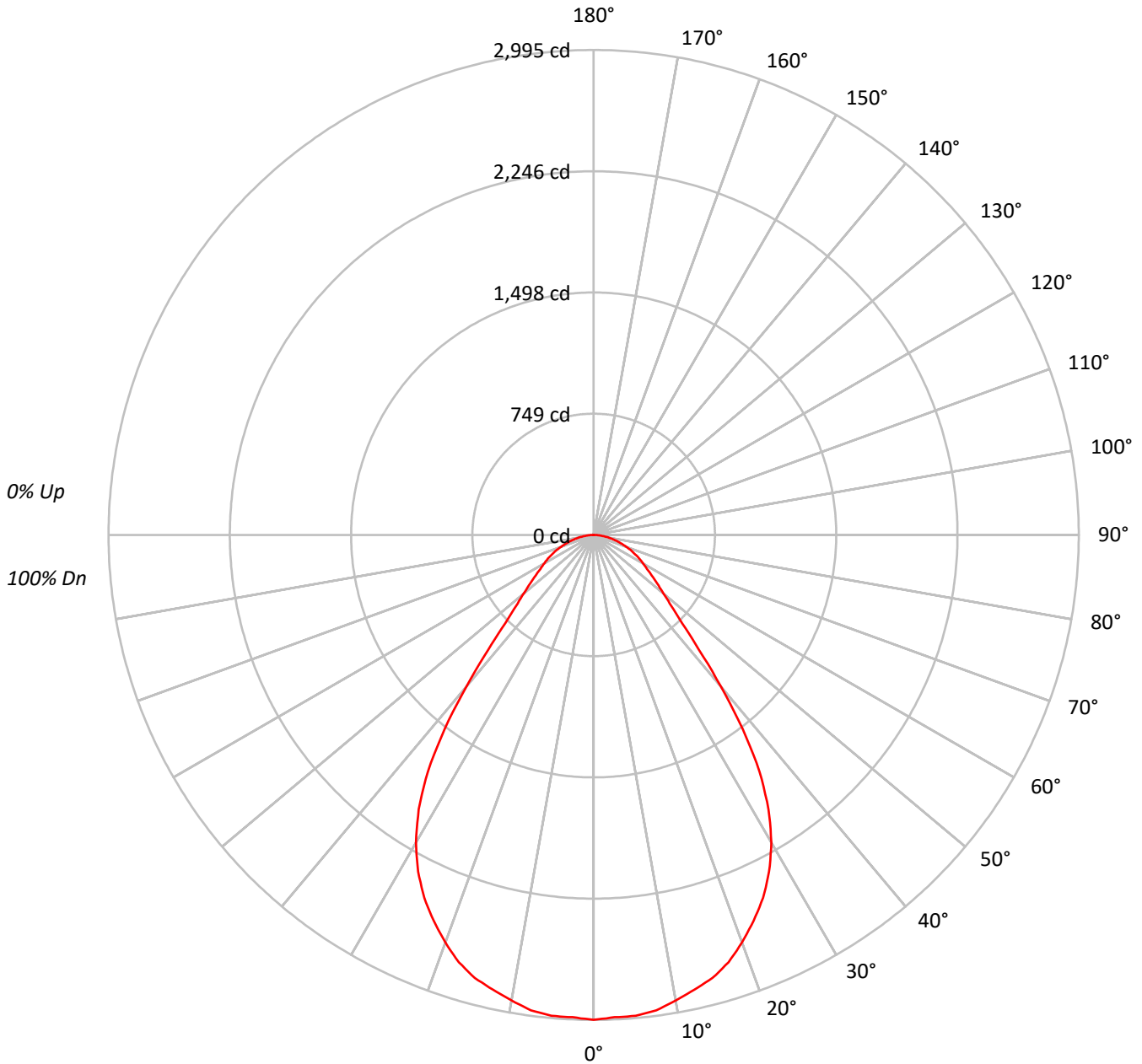
Lumens per Lamp: N/A  
Luminaire Lumens: 4810.7 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**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
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	62	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°	164170
5°	164065
10°	162483
15°	160790
20°	156248
25°	149652
30°	138888
35°	119491
40°	87235
45°	59766
50°	48050
55°	41872
60°	38648
65°	36748
70°	34333
75°	32110
80°	29107
85°	24845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.6	5.9
10°-20°	795.7	16.5
20°-30°	1131.7	23.5
30°-40°	1089.5	22.6
40°-50°	626.9	13.0
50°-60°	397.2	8.3
60°-70°	281.1	5.8
70°-80°	160.3	3.3
80°-90°	45.7	0.9
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°	2210.0	45.9
0°-40°	3299.5	68.6
0°-60°	4323.5	89.9
0°-90°	4810.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4810.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2995	
5°	2981	283
15°	2833	796
25°	2474	1132
35°	1786	1089
45°	771	627
55°	438	397
65°	283	281
75°	152	160
85°	40	46
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2994.7
2.5°	2981.4
5°	2981.4
7.5°	2961.7
10°	2918.9
12.5°	2876.1
15°	2833.1
17.5°	2767.3
20°	2678.3
22.5°	2579.5
25°	2474.1
27.5°	2345.6
30°	2194.1
32.5°	2009.6
35°	1785.5
37.5°	1512.1
40°	1219.0
42.5°	962.0
45°	770.9
47.5°	649.0
50°	563.4
52.5°	494.2
55°	438.1
57.5°	388.7
60°	352.5
62.5°	319.5
65°	283.3
67.5°	250.3
70°	214.2
72.5°	181.2
75°	151.6
77.5°	121.9
80°	92.2
82.5°	65.9
85°	39.5
87.5°	16.4
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)