

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: P593322

Luminaire Tested: **HC645D010-HM64560950-61WDBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC645D010-HM64560950-61WDBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4175.7 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

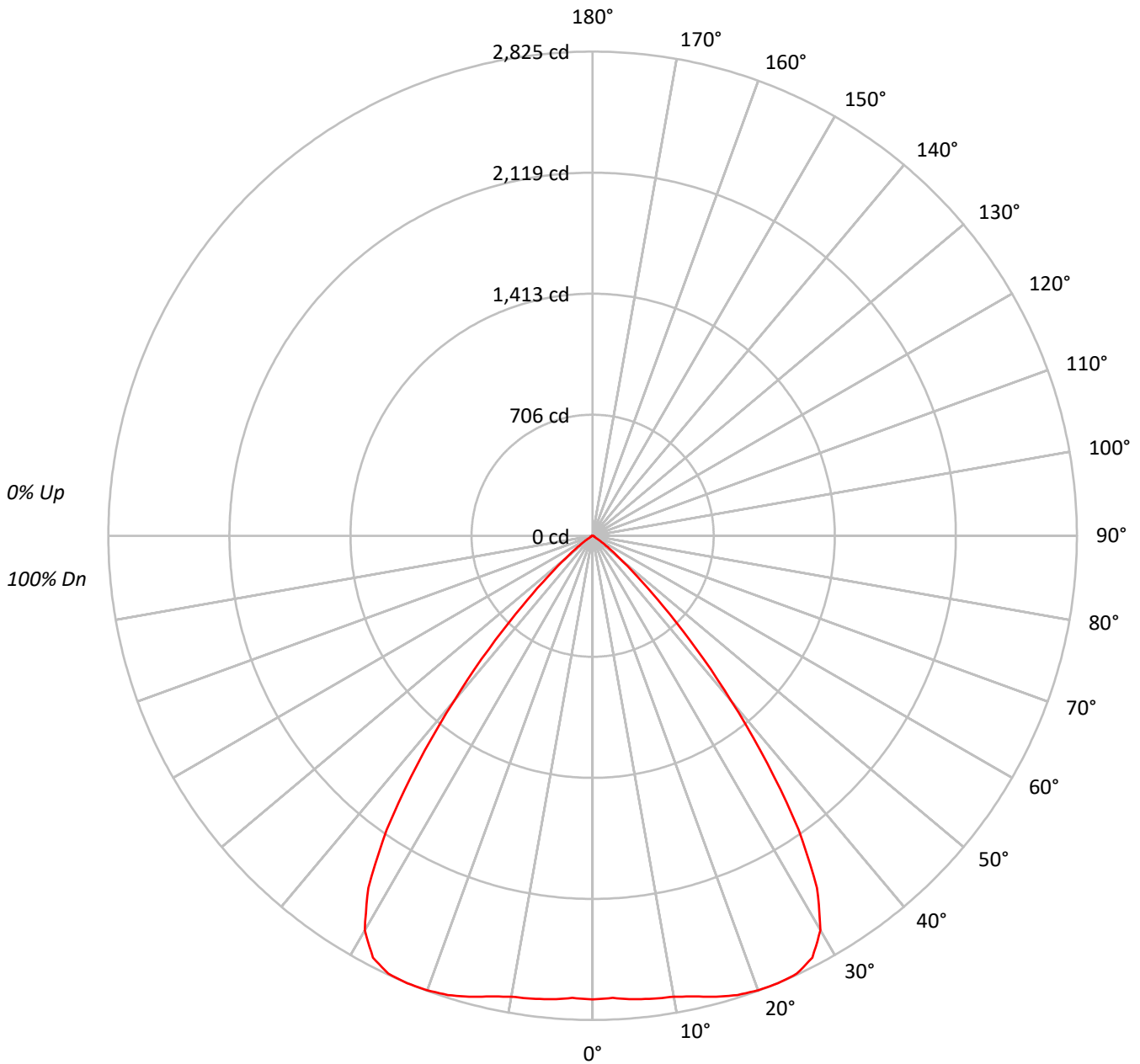
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85			85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65			65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

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

	0°
0°	148300
5°	149389
10°	151996
15°	158015
20°	164643
25°	170520
30°	168235
35°	140170
40°	89883
45°	44888
50°	17808
55°	6040
60°	1732
65°	1232
70°	1010
75°	1334
80°	1010
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.6	6.2
10°-20°	789.7	18.9
20°-30°	1289.4	30.9
30°-40°	1264.0	30.3
40°-50°	484.6	11.6
50°-60°	71.1	1.7
60°-70°	10.6	0.3
70°-80°	5.4	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°	2338.7	56.0
0°-40°	3602.7	86.3
0°-60°	4158.4	99.6
0°-90°	4175.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4175.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2705	
5°	2715	260
15°	2784	790
25°	2819	1289
35°	2094	1264
45°	579	485
55°	63	71
65°	10	11
75°	6	5
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2705.2
2.5°	2698.8
5°	2714.7
7.5°	2724.2
10°	2730.5
12.5°	2752.6
15°	2784.2
17.5°	2809.6
20°	2822.2
22.5°	2825.4
25°	2819.1
27.5°	2774.7
30°	2657.7
32.5°	2436.2
35°	2094.5
37.5°	1673.8
40°	1256.0
42.5°	895.4
45°	579.0
47.5°	354.4
50°	208.8
52.5°	120.2
55°	63.2
57.5°	28.5
60°	15.8
62.5°	12.7
65°	9.5
67.5°	9.5
70°	6.3
72.5°	6.3
75°	6.3
77.5°	3.2
80°	3.2
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)