

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: P582680

Luminaire Tested: **HC645D010-HM64560935-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC645D010-HM64560935-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4823.8 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

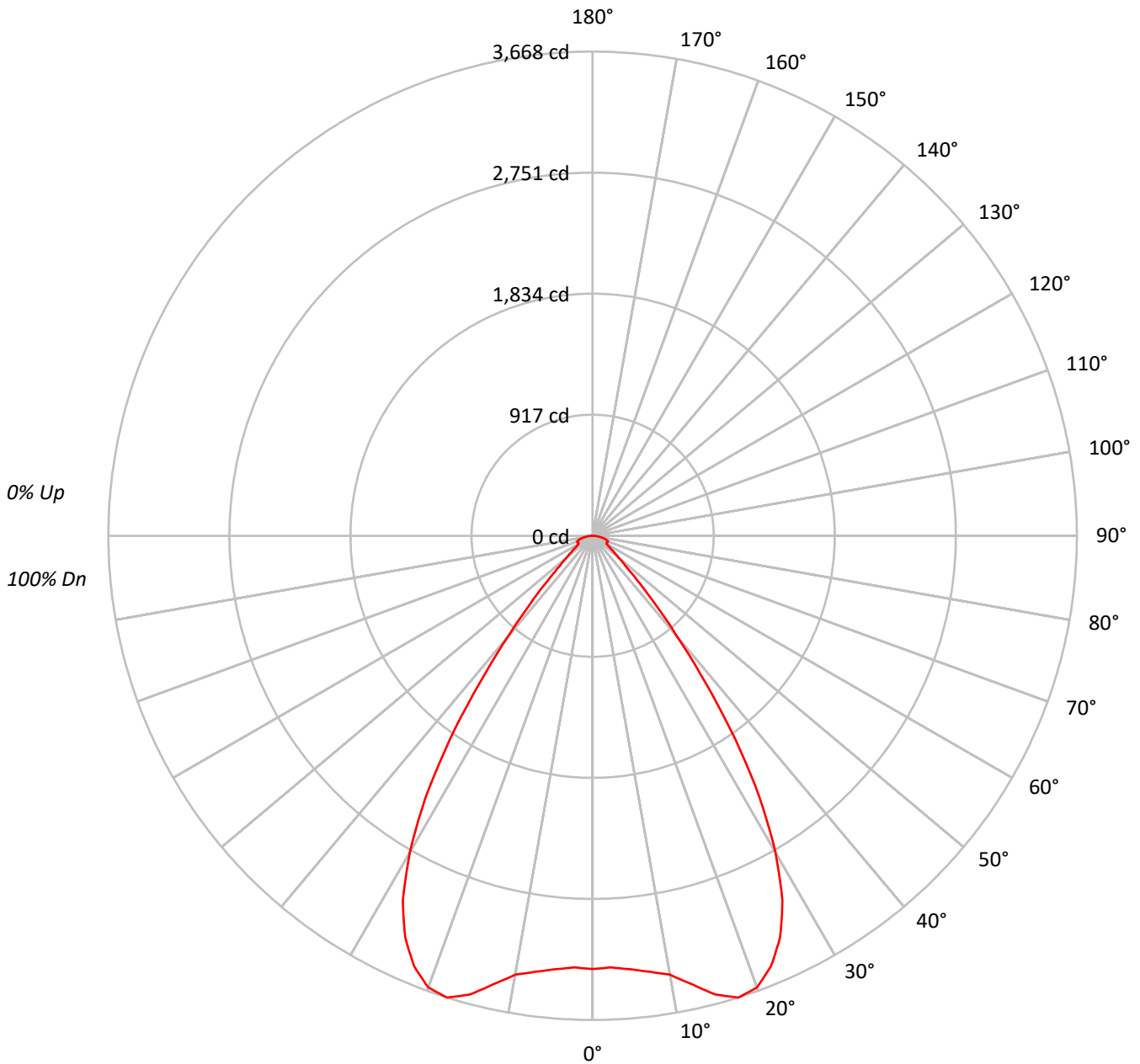
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	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°	179909
5°	181444
10°	187978
15°	204190
20°	212398
25°	203147
30°	175324
35°	126237
40°	71119
45°	36857
50°	21969
55°	15827
60°	13453
65°	15514
70°	19667
75°	20800
80°	20331
85°	19247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.3	6.6
10°-20°	1014.7	21.0
20°-30°	1516.7	31.4
30°-40°	1159.4	24.0
40°-50°	405.0	8.4
50°-60°	154.3	3.2
60°-70°	121.0	2.5
70°-80°	102.4	2.1
80°-90°	32.9	0.7
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°	2848.7	59.1
0°-40°	4008.1	83.1
0°-60°	4567.4	94.7
0°-90°	4823.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4823.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3282	
5°	3297	317
15°	3598	1015
25°	3358	1517
35°	1886	1159
45°	475	405
55°	166	154
65°	120	121
75°	98	102
85°	31	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3281.8
2.5°	3272.7
5°	3297.2
7.5°	3331.0
10°	3376.9
12.5°	3481.2
15°	3597.8
17.5°	3668.3
20°	3640.8
22.5°	3530.3
25°	3358.5
27.5°	3113.1
30°	2769.7
32.5°	2358.7
35°	1886.3
37.5°	1398.6
40°	993.8
42.5°	696.3
45°	475.4
47.5°	334.3
50°	257.6
52.5°	202.5
55°	165.6
57.5°	135.0
60°	122.7
62.5°	119.6
65°	119.6
67.5°	125.7
70°	122.7
72.5°	113.4
75°	98.2
77.5°	82.8
80°	64.4
82.5°	46.0
85°	30.6
87.5°	12.3
90°	0.0



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— 0°-180°







(END OF REPORT)