

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: P593359

Luminaire Tested: **HC650D010-HM64560950-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593359  
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: HC650D010-HM64560950-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5266.1 lumens  
Efficiency: N/A  
Efficacy: 109.7 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

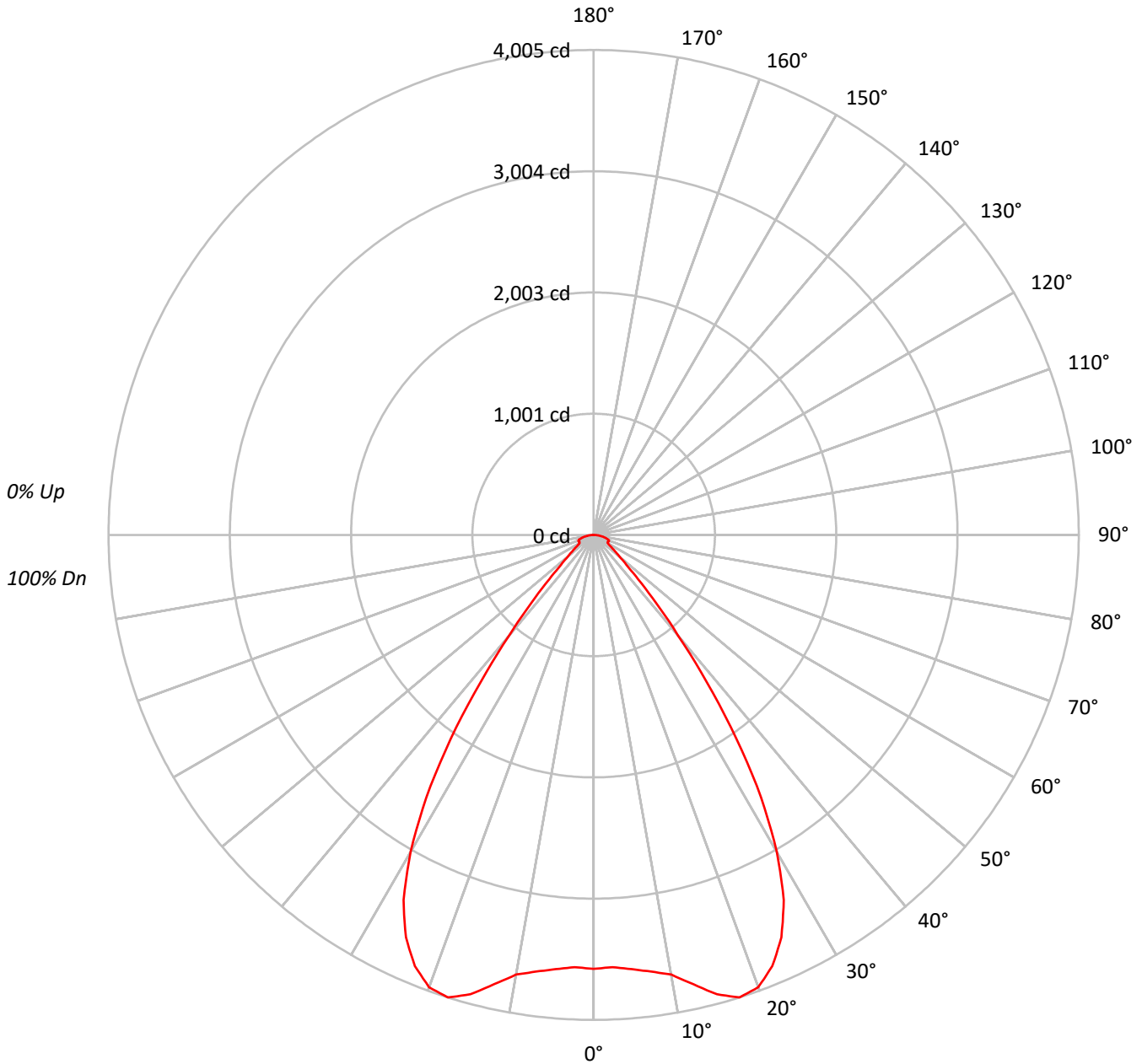
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	196410
5°	198084
10°	205218
15°	222913
20°	231866
25°	221777
30°	191397
35°	137815
40°	77638
45°	40237
50°	23991
55°	17280
60°	14681
65°	16941
70°	21462
75°	22685
80°	22193
85°	21071



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.4	6.6
10°-20°	1107.8	21.0
20°-30°	1655.8	31.4
30°-40°	1265.7	24.0
40°-50°	442.1	8.4
50°-60°	168.5	3.2
60°-70°	132.1	2.5
70°-80°	111.8	2.1
80°-90°	36.0	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°	3110.0	59.1
0°-40°	4375.7	83.1
0°-60°	4986.2	94.7
0°-90°	5266.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5266.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3583	
5°	3600	346
15°	3928	1108
25°	3666	1656
35°	2059	1266
45°	519	442
55°	181	168
65°	131	132
75°	107	112
85°	34	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3582.8
2.5°	3572.8
5°	3599.6
7.5°	3636.4
10°	3686.6
12.5°	3800.5
15°	3927.7
17.5°	4004.8
20°	3974.5
22.5°	3854.1
25°	3666.5
27.5°	3398.7
30°	3023.6
32.5°	2574.9
35°	2059.3
37.5°	1526.9
40°	1084.9
42.5°	760.1
45°	519.0
47.5°	364.9
50°	281.3
52.5°	221.0
55°	180.8
57.5°	147.4
60°	133.9
62.5°	130.6
65°	130.6
67.5°	137.2
70°	133.9
72.5°	123.9
75°	107.1
77.5°	90.5
80°	70.3
82.5°	50.2
85°	33.5
87.5°	13.3
90°	0.0



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— 0°-180°







(END OF REPORT)