

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: P593350

Luminaire Tested: **HC650D010-HM64560850-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560850-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

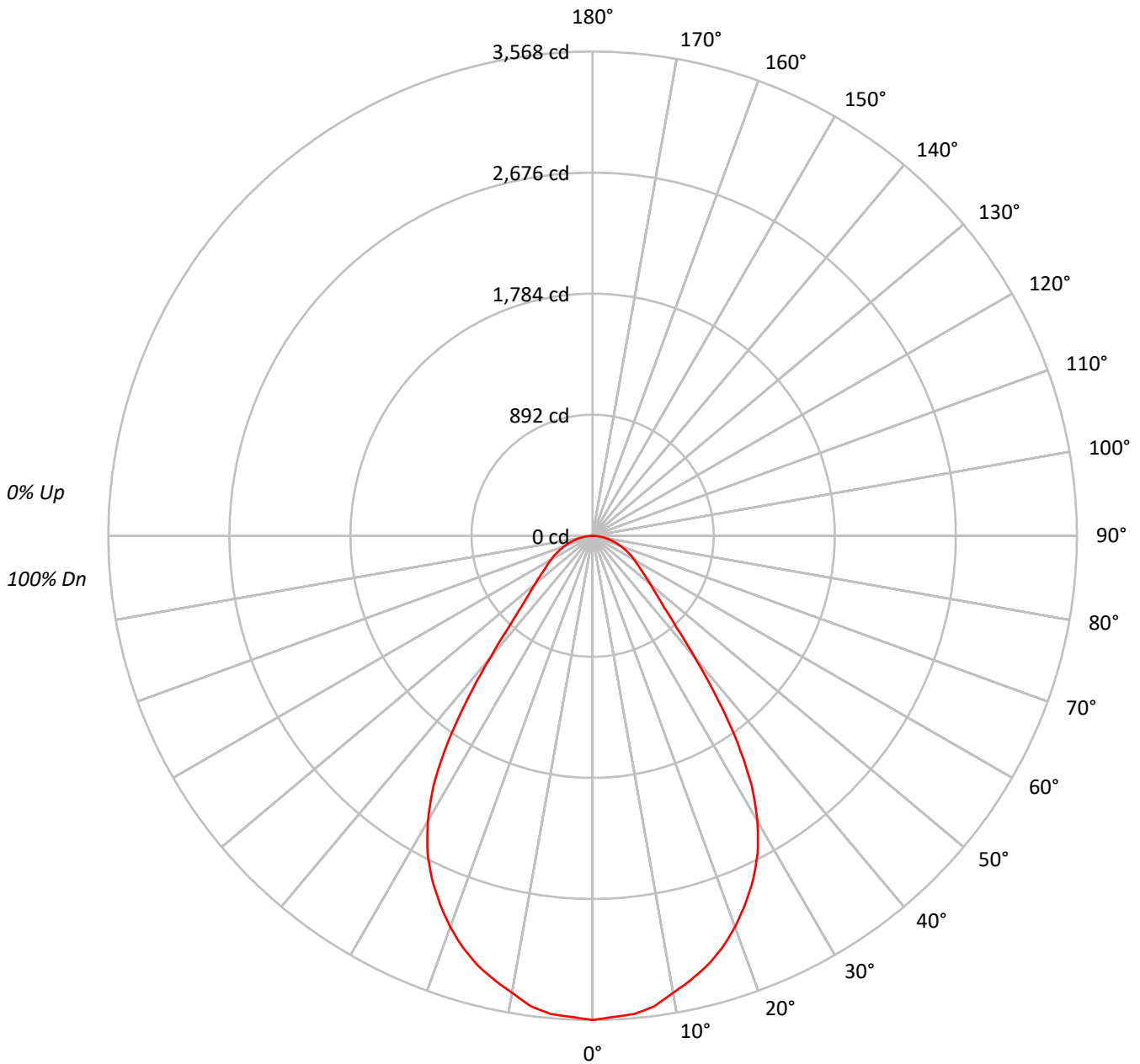
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	195593
5°	194673
10°	190372
15°	185909
20°	178918
25°	169207
30°	153770
35°	124477
40°	83936
45°	57673
50°	47256
55°	41356
60°	39120
65°	36917
70°	34685
75°	32979
80°	29928
85°	26292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	6.5
10°-20°	919.9	17.8
20°-30°	1278.0	24.7
30°-40°	1137.9	22.0
40°-50°	604.0	11.7
50°-60°	395.0	7.6
60°-70°	283.1	5.5
70°-80°	164.2	3.2
80°-90°	48.0	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°	2531.9	49.0
0°-40°	3669.8	71.1
0°-60°	4668.8	90.4
0°-90°	5164.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5164.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3568	
5°	3538	334
15°	3276	920
25°	2797	1278
35°	1860	1138
45°	744	604
55°	433	395
65°	285	283
75°	156	164
85°	42	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3567.9
2.5°	3549.0
5°	3537.6
7.5°	3495.9
10°	3419.9
12.5°	3351.6
15°	3275.7
17.5°	3180.8
20°	3066.9
22.5°	2937.9
25°	2797.4
27.5°	2634.2
30°	2429.2
32.5°	2182.5
35°	1860.0
37.5°	1503.1
40°	1172.9
42.5°	911.0
45°	743.9
47.5°	633.8
50°	554.1
52.5°	489.6
55°	432.7
57.5°	390.9
60°	356.8
62.5°	322.6
65°	284.6
67.5°	250.5
70°	216.4
72.5°	186.0
75°	155.7
77.5°	125.3
80°	94.8
82.5°	68.4
85°	41.8
87.5°	19.0
90°	0.0



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— 0°-180°







(END OF REPORT)