

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: P582759

Luminaire Tested: **HC650D010-HM64560840-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560840-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5240.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

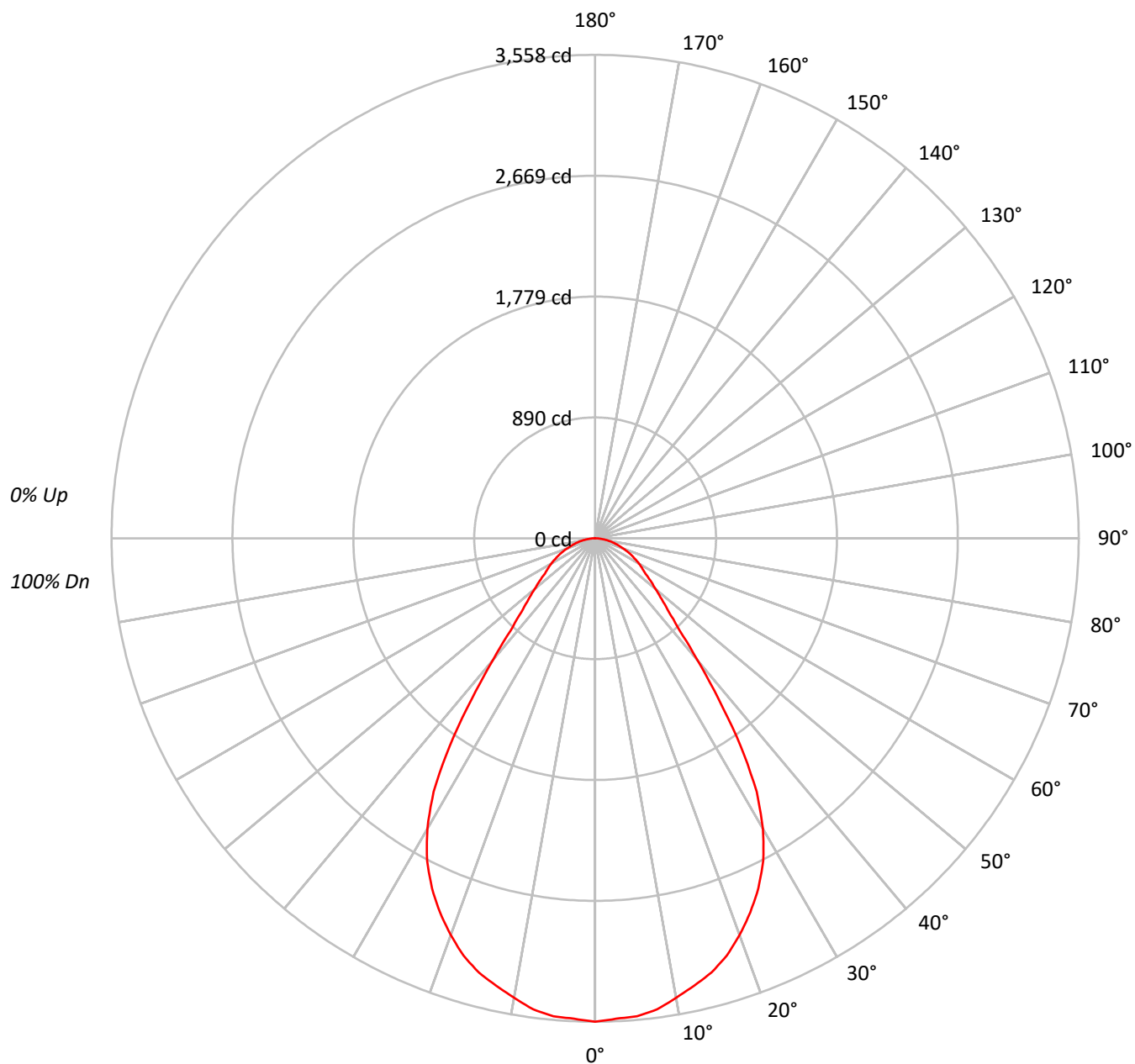
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	104	101	109	105	102	100	101	99	96		97	95	94		94
2	104	97	92	87	101	95	90	86	92	88	84		89	85	82		86
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73
5	84	74	66	61	82	73	66	61	71	65	60		69	64	59		67
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62
7	74	63	55	50	73	62	55	50	61	54	50		59	54	50		58
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	195061
5°	194353
10°	191101
15°	187737
20°	181252
25°	171869
30°	156328
35°	124899
40°	83342
45°	59402
50°	49491
55°	43143
60°	40764
65°	38370
70°	35262
75°	32936
80°	29928
85°	26229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	6.4
10°-20°	928.8	17.7
20°-30°	1297.9	24.8
30°-40°	1143.3	21.8
40°-50°	617.6	11.8
50°-60°	413.0	7.9
60°-70°	292.7	5.6
70°-80°	164.6	3.1
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°	2560.7	48.9
0°-40°	3704.0	70.7
0°-60°	4734.7	90.4
0°-90°	5240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5240.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3558	
5°	3532	334
15°	3308	929
25°	2841	1298
35°	1866	1143
45°	766	618
55°	451	413
65°	296	293
75°	156	165
85°	42	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3558.2
2.5°	3539.3
5°	3531.8
7.5°	3497.5
10°	3433.0
12.5°	3372.3
15°	3307.9
17.5°	3220.7
20°	3106.9
22.5°	2981.7
25°	2841.4
27.5°	2678.2
30°	2469.6
32.5°	2211.5
35°	1866.3
37.5°	1490.9
40°	1164.6
42.5°	918.0
45°	766.2
47.5°	663.8
50°	580.3
52.5°	512.1
55°	451.4
57.5°	409.7
60°	371.8
62.5°	333.9
65°	295.8
67.5°	257.9
70°	220.0
72.5°	185.9
75°	155.5
77.5°	125.2
80°	94.8
82.5°	68.3
85°	41.7
87.5°	19.0
90°	0.0



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— 0°-180°







(END OF REPORT)