

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: P582823

Luminaire Tested: **HC650D010-HM64560935-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560935-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4738.3 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

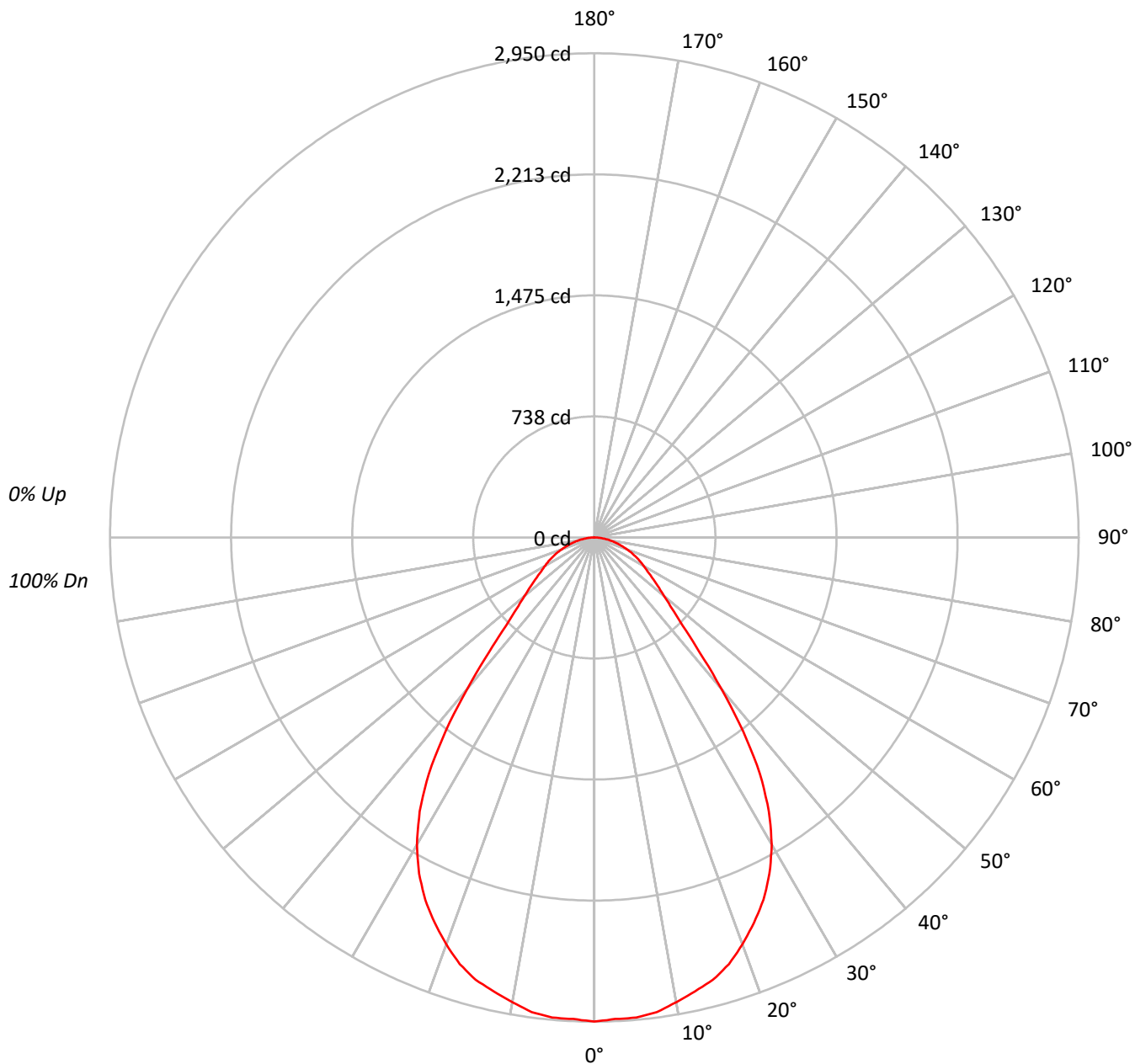
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582823

CATALOG NUMBER: HC650D010-HM64560935-61WDW

Luminous Intensity Polar Plot





TEST NUMBER: P582823

CATALOG NUMBER: HC650D010-HM64560935-61WDW

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	107	104	101	108	105	102	99	101	98	96		97	95	93		94
2	103	97	91	87	101	95	90	86	91	87	84		88	85	82		85
3	96	87	81	76	94	86	80	75	83	78	74		81	76	72		78
4	89	80	72	67	87	78	72	66	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	54	64	58	53		63	57	53		61
7	73	62	54	49	72	61	54	49	60	53	48		58	52	48		57
8	69	57	50	45	68	57	50	45	55	49	44		54	48	44		53
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50
10	61	50	43	38	60	49	42	38	48	42	38		47	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	161692
5°	161600
10°	160034
15°	158378
20°	153897
25°	147402
30°	136800
35°	117698
40°	85918
45°	58867
50°	47316
55°	41241
60°	38067
65°	36204
70°	33804
75°	31623
80°	28665
85°	24531



TEST NUMBER: P582823

CATALOG NUMBER: HC650D010-HM64560935-61WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	5.9
10°-20°	783.7	16.5
20°-30°	1114.6	23.5
30°-40°	1073.1	22.6
40°-50°	617.4	13.0
50°-60°	391.2	8.3
60°-70°	276.9	5.8
70°-80°	157.9	3.3
80°-90°	45.0	1.0
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°	2176.7	45.9
0°-40°	3249.8	68.6
0°-60°	4258.5	89.9
0°-90°	4738.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4738.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2950	
5°	2937	278
15°	2791	784
25°	2437	1115
35°	1759	1073
45°	759	617
55°	432	391
65°	279	277
75°	149	158
85°	39	45
90°	0	



TEST NUMBER: P582823

CATALOG NUMBER: HC650D010-HM64560935-61WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2949.5
2.5°	2936.6
5°	2936.6
7.5°	2917.1
10°	2874.9
12.5°	2832.7
15°	2790.6
17.5°	2725.6
20°	2638.0
22.5°	2540.7
25°	2436.9
27.5°	2310.3
30°	2161.1
32.5°	1979.4
35°	1758.7
37.5°	1489.4
40°	1200.6
42.5°	947.5
45°	759.3
47.5°	639.3
50°	554.8
52.5°	486.7
55°	431.5
57.5°	382.9
60°	347.2
62.5°	314.7
65°	279.1
67.5°	246.6
70°	210.9
72.5°	178.4
75°	149.3
77.5°	120.1
80°	90.8
82.5°	65.0
85°	39.0
87.5°	16.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)