

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: P593002

Luminaire Tested: **HC605D010-HM60525950-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525950-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 645.2 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

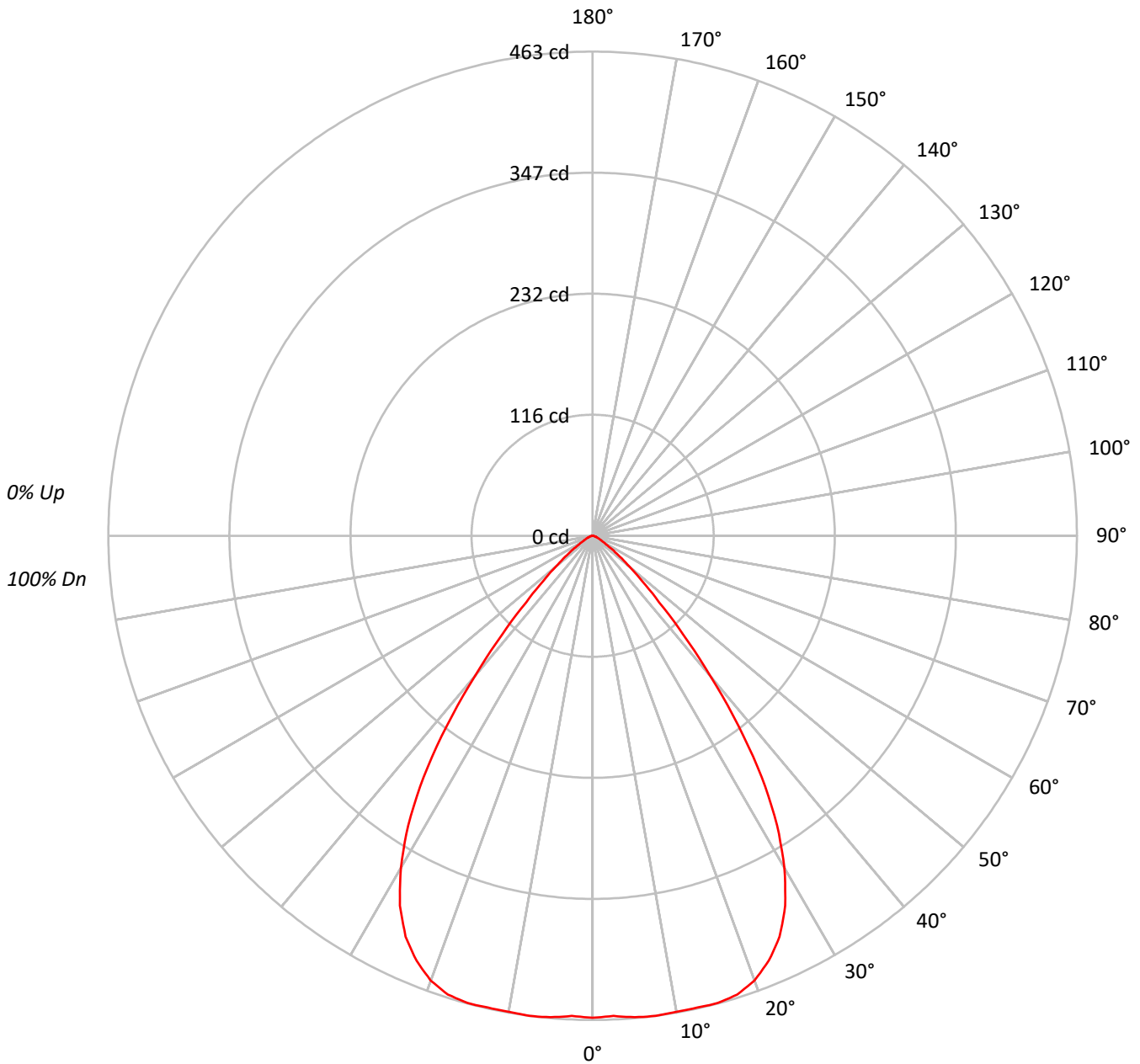
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593002

CATALOG NUMBER: HC605D010-HM60525950-61WDH

Luminous Intensity Polar Plot





TEST NUMBER: P593002

CATALOG NUMBER: HC605D010-HM60525950-61WDH

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	100	100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25267
5°	25435
10°	25729
15°	26254
20°	26404
25°	25586
30°	23206
35°	18866
40°	12523
45°	6970
50°	3915
55°	2170
60°	1206
65°	908
70°	641
75°	445
80°	284
85°	314



TEST NUMBER: P593002

CATALOG NUMBER: HC605D010-HM60525950-61WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	6.8
10°-20°	130.4	20.2
20°-30°	192.3	29.8
30°-40°	172.0	26.7
40°-50°	74.6	11.6
50°-60°	22.0	3.4
60°-70°	7.0	1.1
70°-80°	2.5	0.4
80°-90°	0.4	0.1
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°	366.8	56.9
0°-40°	538.8	83.5
0°-60°	635.4	98.5
0°-90°	645.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	645.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	461	
5°	462	44
15°	463	130
25°	423	192
35°	282	172
45°	90	75
55°	23	22
65°	7	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P593002

CATALOG NUMBER: HC605D010-HM60525950-61WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	460.9
2.5°	459.6
5°	462.2
7.5°	463.1
10°	462.2
12.5°	462.2
15°	462.6
17.5°	460.0
20°	452.6
22.5°	439.9
25°	423.0
27.5°	398.9
30°	366.6
32.5°	328.3
35°	281.9
37.5°	229.2
40°	175.0
42.5°	127.9
45°	89.9
47.5°	64.2
50°	45.9
52.5°	32.8
55°	22.7
57.5°	15.3
60°	11.0
62.5°	8.7
65°	7.0
67.5°	5.2
70°	4.0
72.5°	3.1
75°	2.1
77.5°	1.7
80°	0.9
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)