

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: P582877

Luminaire Tested: **HC605D010-HM60525830-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582877
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: HC605D010-HM60525830-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 696.9 lumens
Efficiency: N/A
Efficacy: 116.2 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

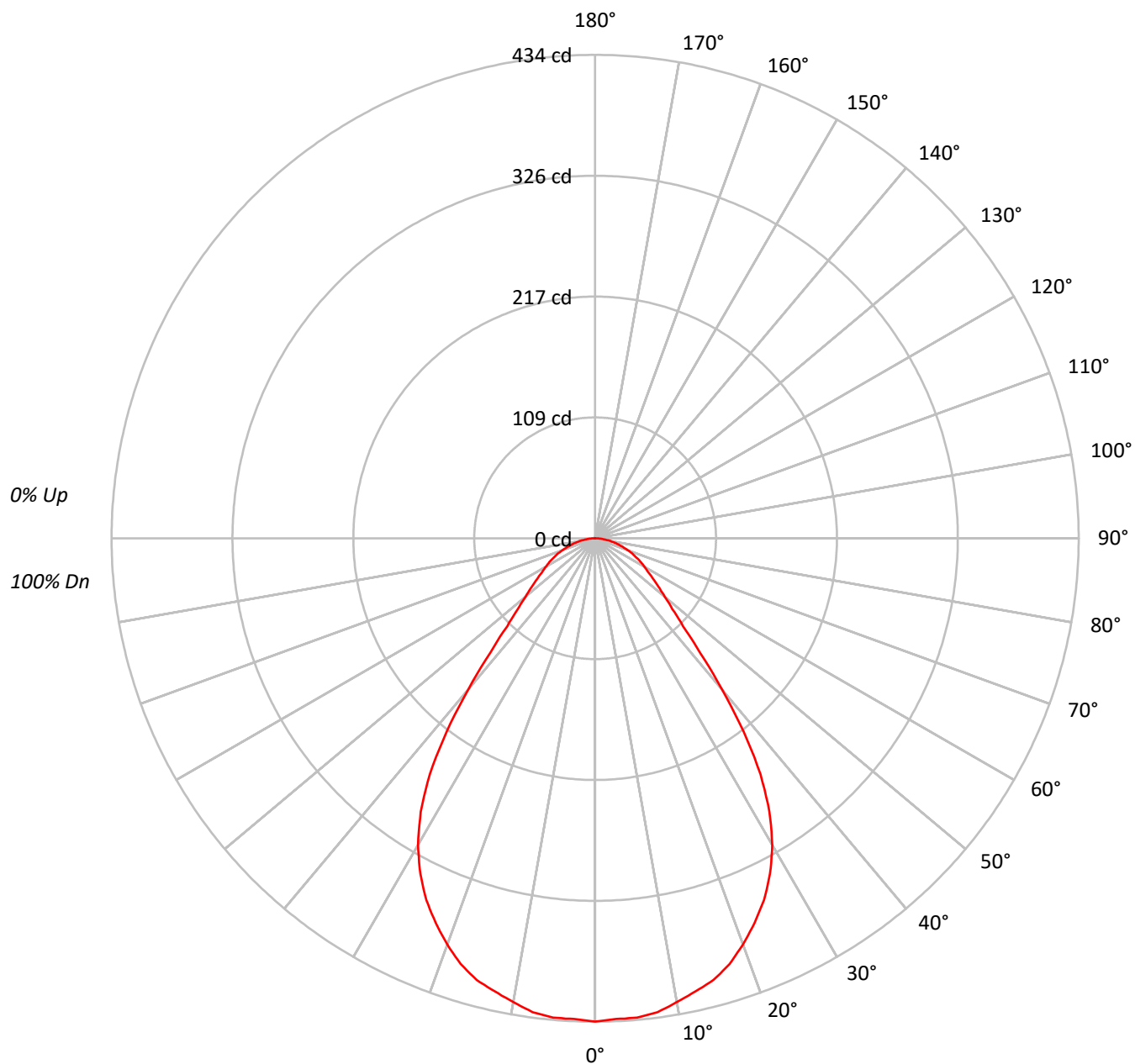
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23786
5°	23773
10°	23536
15°	23298
20°	22635
25°	21679
30°	20123
35°	17313
40°	12638
45°	8652
50°	6959
55°	6069
60°	5603
65°	5318
70°	4985
75°	4639
80°	4199
85°	3648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	5.9
10°-20°	115.3	16.5
20°-30°	163.9	23.5
30°-40°	157.9	22.7
40°-50°	90.8	13.0
50°-60°	57.5	8.3
60°-70°	40.7	5.8
70°-80°	23.2	3.3
80°-90°	6.6	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°	320.2	45.9
0°-40°	478.0	68.6
0°-60°	626.4	89.9
0°-90°	696.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	434	
5°	432	41
15°	410	115
25°	358	164
35°	259	158
45°	112	91
55°	64	58
65°	41	41
75°	22	23
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	433.9
2.5°	432.0
5°	432.0
7.5°	429.1
10°	422.8
12.5°	416.6
15°	410.5
17.5°	400.9
20°	388.0
22.5°	373.7
25°	358.4
27.5°	339.8
30°	317.9
32.5°	291.2
35°	258.7
37.5°	219.1
40°	176.6
42.5°	139.3
45°	111.6
47.5°	94.0
50°	81.6
52.5°	71.6
55°	63.5
57.5°	56.3
60°	51.1
62.5°	46.3
65°	41.0
67.5°	36.3
70°	31.1
72.5°	26.2
75°	21.9
77.5°	17.6
80°	13.3
82.5°	9.5
85°	5.8
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)