

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: P582949

Luminaire Tested: **HC605D010-HM60525930-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582949
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-HM60525930-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 597.4 lumens
Efficiency: N/A
Efficacy: 99.6 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

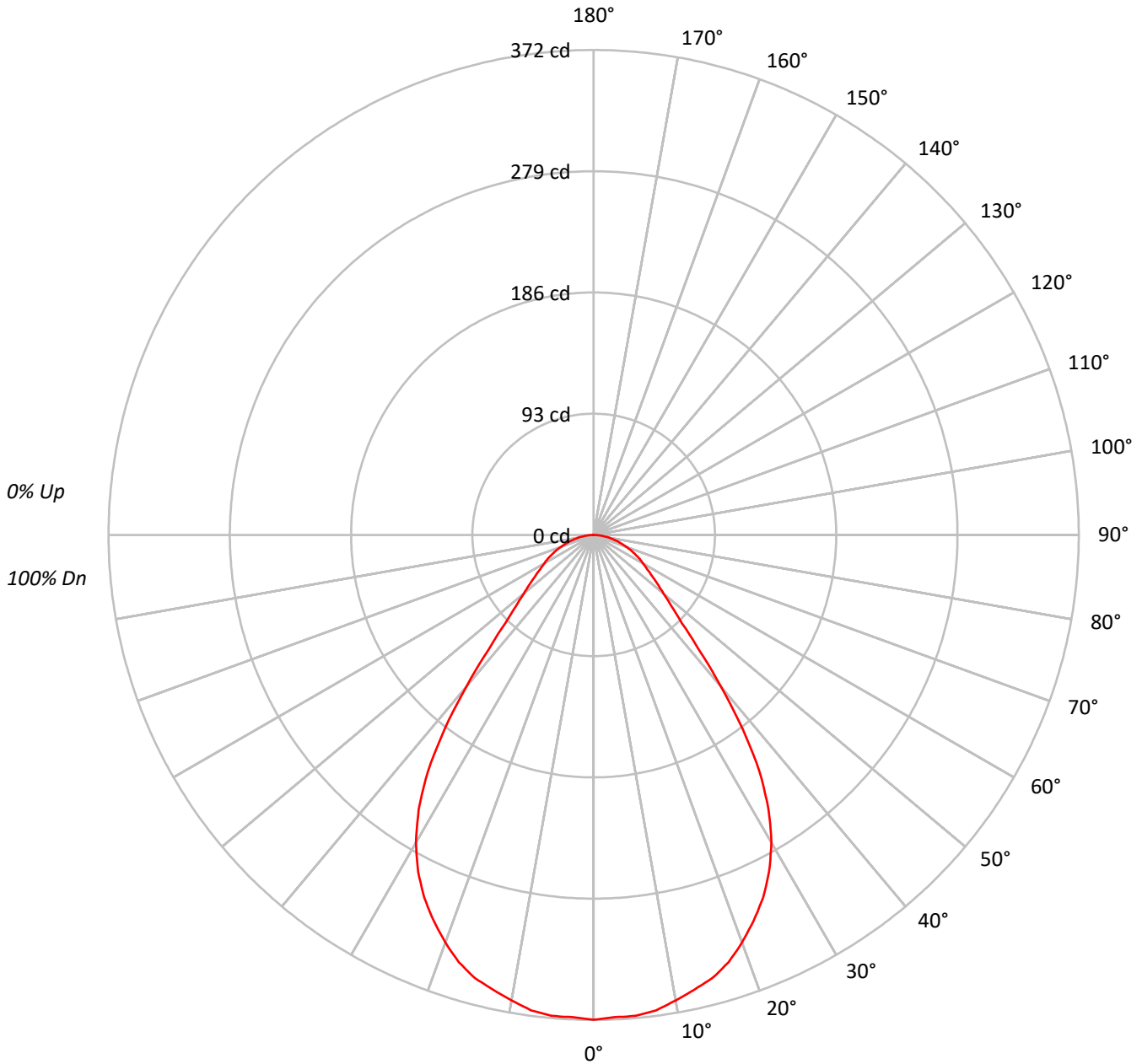
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20388
5°	20377
10°	20179
15°	19972
20°	19409
25°	18582
30°	17256
35°	14844
40°	10835
45°	7419
50°	5961
55°	5209
60°	4791
65°	4553
70°	4264
75°	4003
80°	3599
85°	3082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	5.9
10°-20°	98.8	16.5
20°-30°	140.6	23.5
30°-40°	135.3	22.7
40°-50°	77.8	13.0
50°-60°	49.3	8.3
60°-70°	34.9	5.8
70°-80°	19.9	3.3
80°-90°	5.6	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°	274.5	45.9
0°-40°	409.8	68.6
0°-60°	537.0	89.9
0°-90°	597.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	597.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	372	
5°	370	35
15°	352	99
25°	307	141
35°	222	135
45°	96	78
55°	54	49
65°	35	35
75°	19	20
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	371.9
2.5°	370.3
5°	370.3
7.5°	367.8
10°	362.5
12.5°	357.2
15°	351.9
17.5°	343.7
20°	332.7
22.5°	320.4
25°	307.2
27.5°	291.3
30°	272.6
32.5°	249.6
35°	221.8
37.5°	187.8
40°	151.4
42.5°	119.4
45°	95.7
47.5°	80.6
50°	69.9
52.5°	61.4
55°	54.5
57.5°	48.3
60°	43.7
62.5°	39.7
65°	35.1
67.5°	31.1
70°	26.6
72.5°	22.5
75°	18.9
77.5°	15.1
80°	11.4
82.5°	8.1
85°	4.9
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)