

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: P582961

Luminaire Tested: **HC605D010-HM60525935-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525935-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 610.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

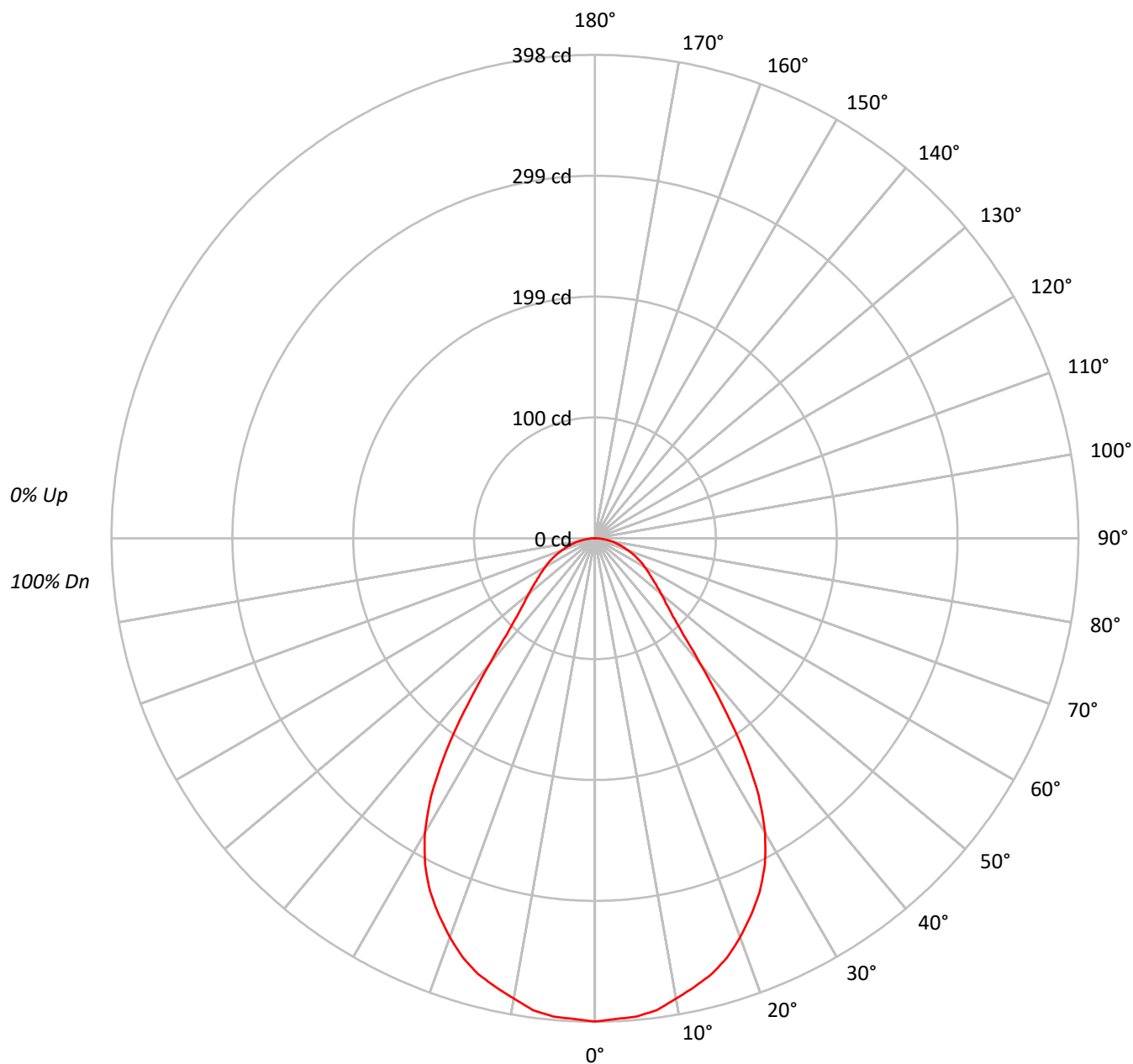
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	65	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	77	66	59	54	64	58	53	63	57	53	61	56	53	51		
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21807
5°	21748
10°	21420
15°	21078
20°	20389
25°	19416
30°	17731
35°	14275
40°	9625
45°	7016
50°	6064
55°	5477
60°	5186
65°	4929
70°	4632
75°	4384
80°	4072
85°	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	6.1
10°-20°	104.3	17.1
20°-30°	146.6	24.0
30°-40°	130.5	21.4
40°-50°	72.9	12.0
50°-60°	51.9	8.5
60°-70°	37.8	6.2
70°-80°	21.9	3.6
80°-90°	6.8	1.1
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°	288.3	47.3
0°-40°	418.7	68.6
0°-60°	543.5	89.1
0°-90°	610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	610.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	398	
5°	395	37
15°	371	104
25°	321	147
35°	213	130
45°	90	73
55°	57	52
65°	38	38
75°	21	22
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	397.8
2.5°	396.1
5°	395.2
7.5°	391.7
10°	384.8
12.5°	378.3
15°	371.4
17.5°	361.9
20°	349.5
22.5°	335.7
25°	321.0
27.5°	303.0
30°	280.1
32.5°	250.7
35°	213.3
37.5°	171.1
40°	134.5
42.5°	107.4
45°	90.5
47.5°	79.3
50°	71.1
52.5°	63.7
55°	57.3
57.5°	52.1
60°	47.3
62.5°	43.1
65°	38.0
67.5°	33.6
70°	28.9
72.5°	24.5
75°	20.7
77.5°	16.8
80°	12.9
82.5°	9.5
85°	6.0
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)