

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: P581594

Luminaire Tested: **HC610D010-HM60525835-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581594
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: HC610D010-HM60525835-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1122.8 lumens
Efficiency: N/A
Efficacy: 113.4 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

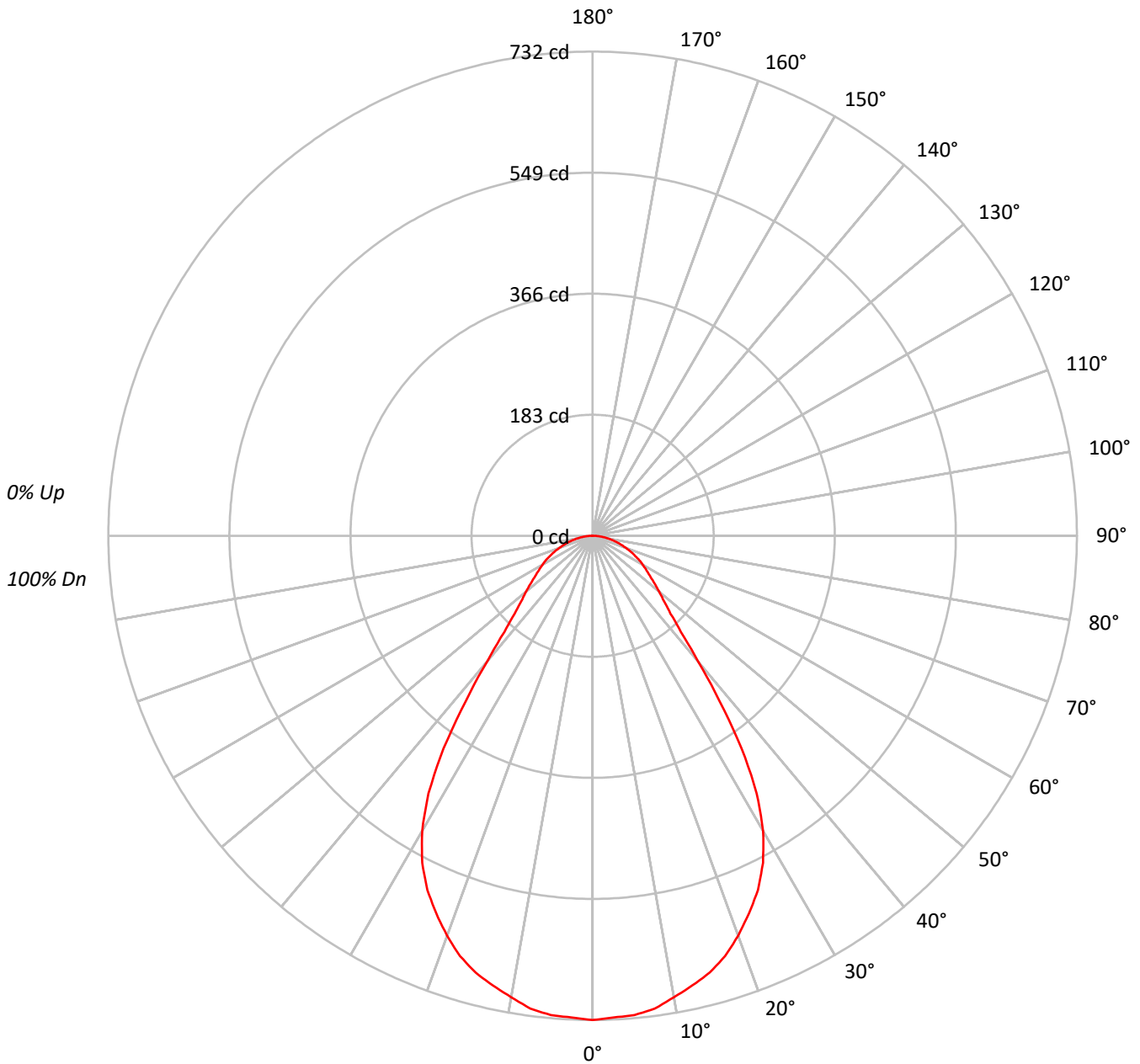
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	40134
5°	40023
10°	39428
15°	38803
20°	37523
25°	35742
30°	32632
35°	26274
40°	17712
45°	12908
50°	11164
55°	10083
60°	9572
65°	9054
70°	8511
75°	8049
80°	7514
85°	6982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	6.1
10°-20°	192.0	17.1
20°-30°	269.7	24.0
30°-40°	240.1	21.4
40°-50°	134.2	11.9
50°-60°	95.6	8.5
60°-70°	69.6	6.2
70°-80°	40.2	3.6
80°-90°	12.5	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°	530.6	47.3
0°-40°	770.7	68.6
0°-60°	1000.5	89.1
0°-90°	1122.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1122.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	732	
5°	727	69
15°	684	192
25°	591	270
35°	393	240
45°	166	134
55°	106	96
65°	70	70
75°	38	40
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	732.1
2.5°	728.9
5°	727.3
7.5°	721.0
10°	708.3
12.5°	696.4
15°	683.7
17.5°	666.3
20°	643.2
22.5°	617.8
25°	590.9
27.5°	557.6
30°	515.5
32.5°	461.6
35°	392.6
37.5°	314.9
40°	247.5
42.5°	197.5
45°	166.5
47.5°	145.9
50°	130.9
52.5°	117.4
55°	105.5
57.5°	96.0
60°	87.3
62.5°	79.4
65°	69.8
67.5°	61.9
70°	53.1
72.5°	45.2
75°	38.0
77.5°	30.9
80°	23.8
82.5°	17.4
85°	11.1
87.5°	5.5
90°	0.0



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— 0°-180°







(END OF REPORT)