

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: P593081

Luminaire Tested: **HC610D010-HM60525950-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593081
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-HM60525950-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1009.7 lumens
Efficiency: N/A
Efficacy: 102.0 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

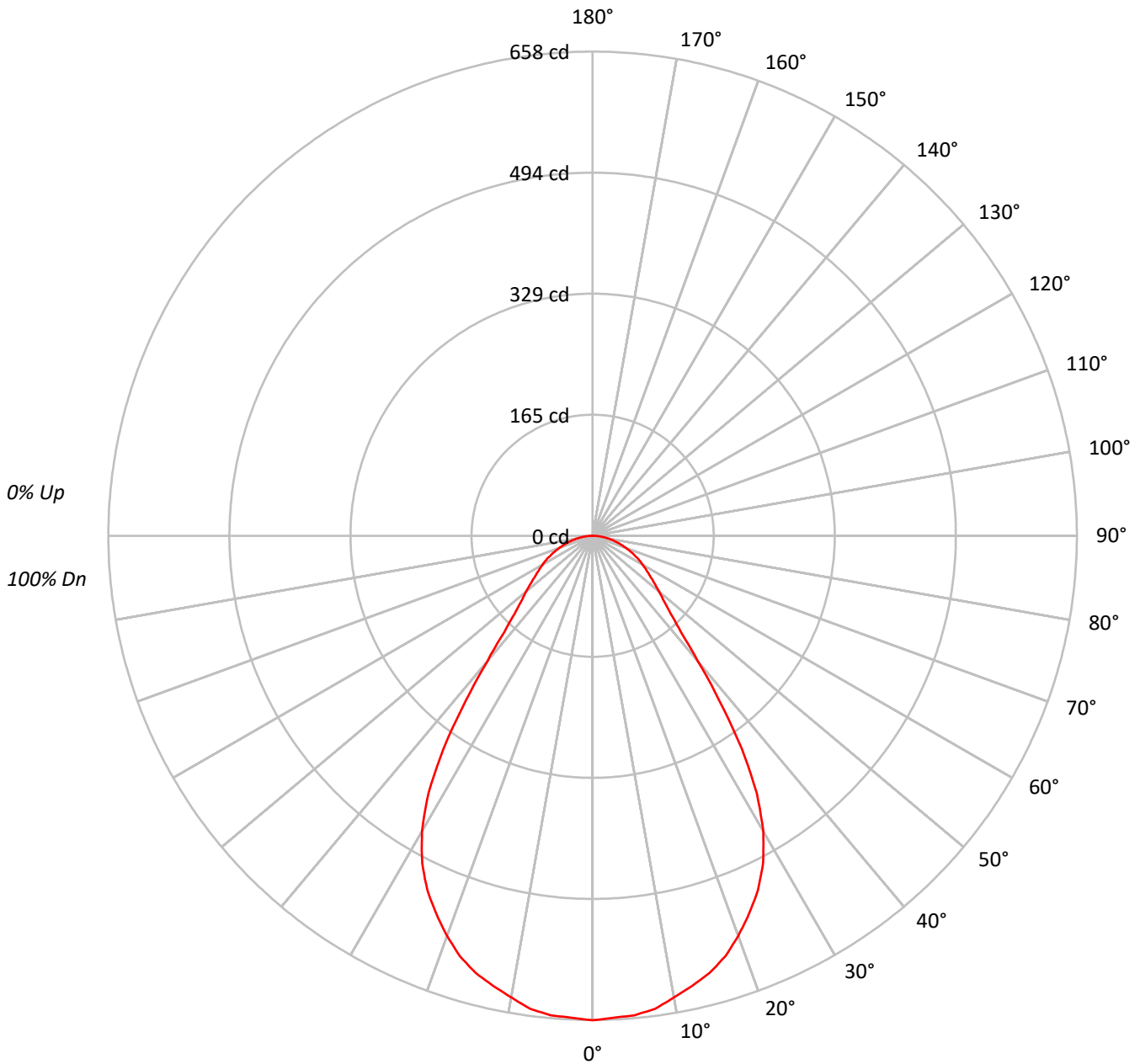
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	36094
5°	35995
10°	35459
15°	34892
20°	33749
25°	32143
30°	29353
35°	23631
40°	15930
45°	11614
50°	10038
55°	9070
60°	8596
65°	8133
70°	7662
75°	7244
80°	6756
85°	6290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	6.1
10°-20°	172.7	17.1
20°-30°	242.6	24.0
30°-40°	216.0	21.4
40°-50°	120.7	12.0
50°-60°	86.0	8.5
60°-70°	62.5	6.2
70°-80°	36.2	3.6
80°-90°	11.3	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°	477.2	47.3
0°-40°	693.1	68.6
0°-60°	899.8	89.1
0°-90°	1009.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	658	
5°	654	62
15°	615	173
25°	531	243
35°	353	216
45°	150	121
55°	95	86
65°	63	63
75°	34	36
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	658.4
2.5°	655.5
5°	654.1
7.5°	648.4
10°	637.0
12.5°	626.2
15°	614.8
17.5°	599.2
20°	578.5
22.5°	555.6
25°	531.4
27.5°	501.5
30°	463.7
32.5°	415.1
35°	353.1
37.5°	283.2
40°	222.6
42.5°	177.6
45°	149.8
47.5°	131.2
50°	117.7
52.5°	105.6
55°	94.9
57.5°	86.3
60°	78.4
62.5°	71.3
65°	62.7
67.5°	55.6
70°	47.8
72.5°	40.6
75°	34.2
77.5°	27.8
80°	21.4
82.5°	15.7
85°	10.0
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)