

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: P593071

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525950-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1121.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

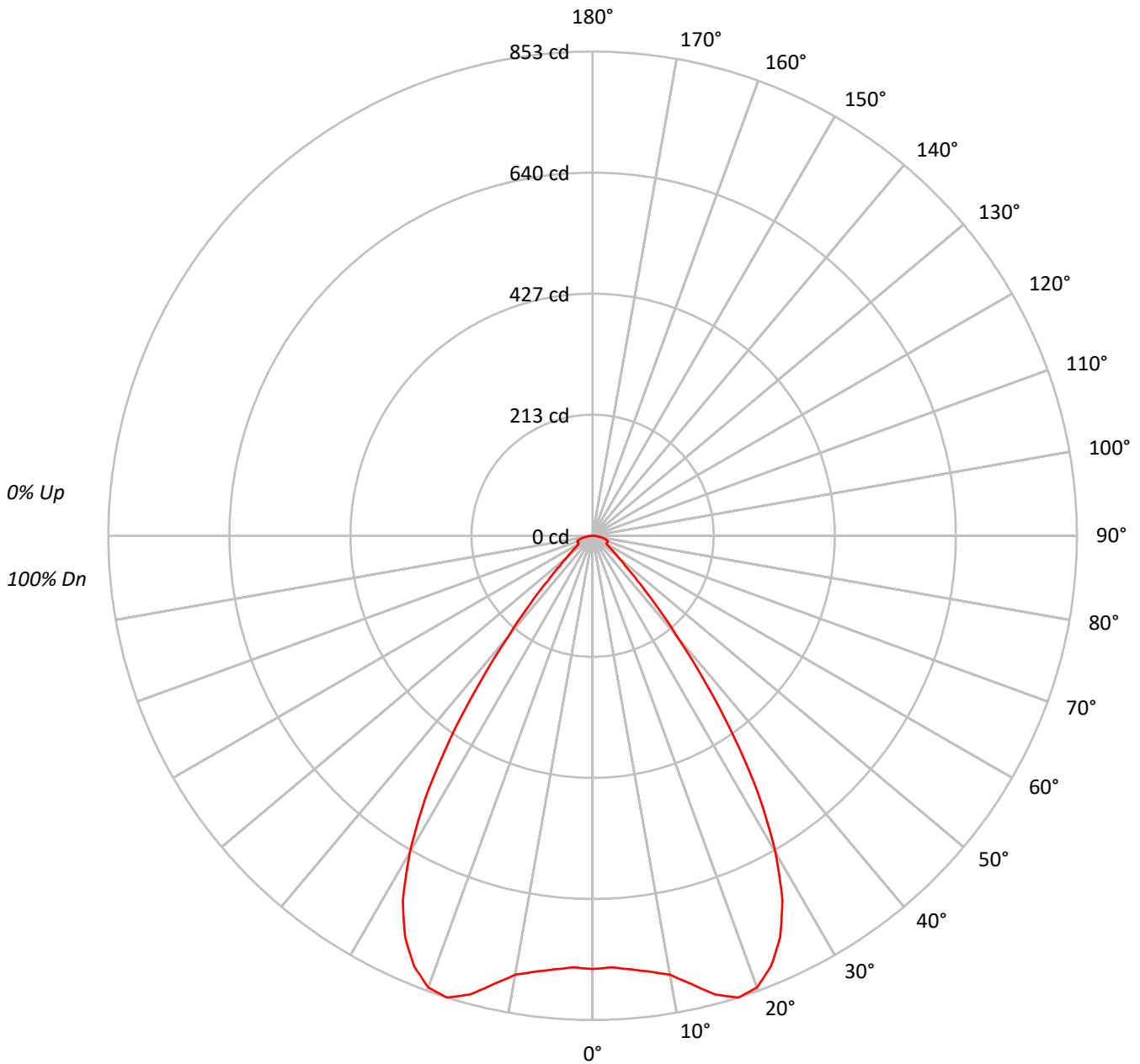
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41839
5°	42191
10°	43714
15°	47486
20°	49389
25°	47241
30°	40766
35°	29352
40°	16531
45°	8575
50°	5109
55°	3680
60°	3125
65°	3606
70°	4568
75°	4850
80°	4704
85°	4466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	6.6
10°-20°	236.0	21.0
20°-30°	352.7	31.4
30°-40°	269.6	24.0
40°-50°	94.2	8.4
50°-60°	35.9	3.2
60°-70°	28.1	2.5
70°-80°	23.8	2.1
80°-90°	7.7	0.7
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°	662.4	59.1
0°-40°	932.0	83.1
0°-60°	1062.1	94.7
0°-90°	1121.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1121.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	763	
5°	767	74
15°	837	236
25°	781	353
35°	439	270
45°	111	94
55°	38	36
65°	28	28
75°	23	24
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	763.2
2.5°	761.0
5°	766.7
7.5°	774.5
10°	785.3
12.5°	809.5
15°	836.7
17.5°	853.1
20°	846.6
22.5°	820.9
25°	781.0
27.5°	723.9
30°	644.0
32.5°	548.5
35°	438.6
37.5°	325.2
40°	231.0
42.5°	161.9
45°	110.6
47.5°	77.8
50°	59.9
52.5°	47.1
55°	38.5
57.5°	31.4
60°	28.5
62.5°	27.8
65°	27.8
67.5°	29.2
70°	28.5
72.5°	26.4
75°	22.9
77.5°	19.2
80°	14.9
82.5°	10.8
85°	7.1
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)