

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: P581625

Luminaire Tested: **HC610D010-HM60525927-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525927-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 846.3 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

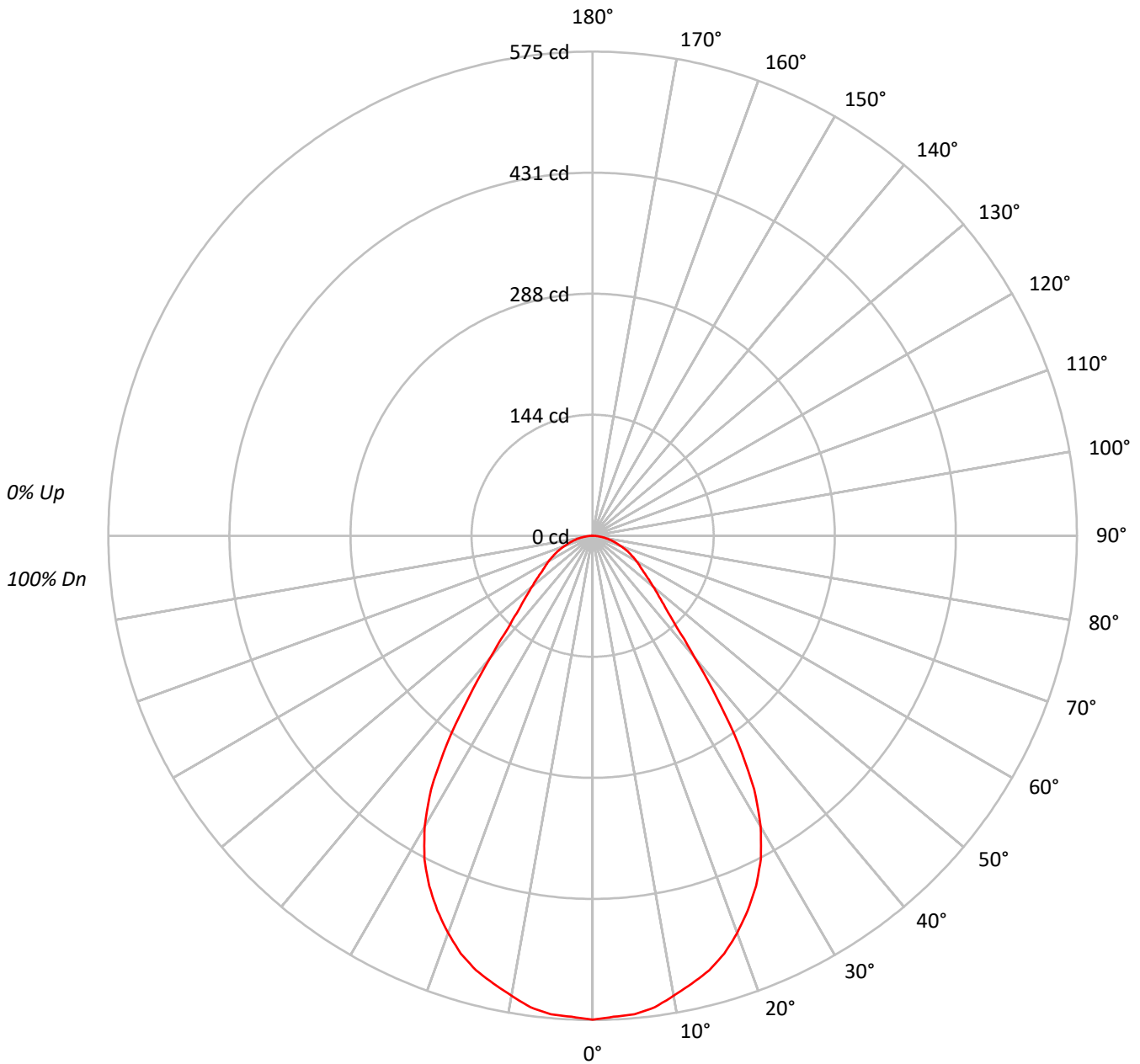
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31505
5°	31389
10°	30867
15°	30324
20°	29274
25°	27758
30°	25244
35°	20177
40°	13461
45°	9590
50°	7991
55°	6967
60°	6578
65°	6200
70°	5690
75°	5316
80°	4830
85°	4277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	6.4
10°-20°	150.0	17.7
20°-30°	209.6	24.8
30°-40°	184.7	21.8
40°-50°	99.7	11.8
50°-60°	66.7	7.9
60°-70°	47.3	5.6
70°-80°	26.6	3.1
80°-90°	7.8	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°	413.6	48.9
0°-40°	598.2	70.7
0°-60°	764.7	90.4
0°-90°	846.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	846.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	575	
5°	570	54
15°	534	150
25°	459	210
35°	302	185
45°	124	100
55°	73	67
65°	48	47
75°	25	27
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	574.7
2.5°	571.7
5°	570.4
7.5°	564.9
10°	554.5
12.5°	544.7
15°	534.3
17.5°	520.2
20°	501.8
22.5°	481.6
25°	458.9
27.5°	432.5
30°	398.8
32.5°	357.1
35°	301.5
37.5°	240.8
40°	188.1
42.5°	148.3
45°	123.7
47.5°	107.2
50°	93.7
52.5°	82.7
55°	72.9
57.5°	66.2
60°	60.0
62.5°	53.9
65°	47.8
67.5°	41.7
70°	35.5
72.5°	30.0
75°	25.1
77.5°	20.3
80°	15.3
82.5°	11.0
85°	6.8
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)