

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: P582643

Luminaire Tested: **HC645D010-HM64560927-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560927-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3704.1 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

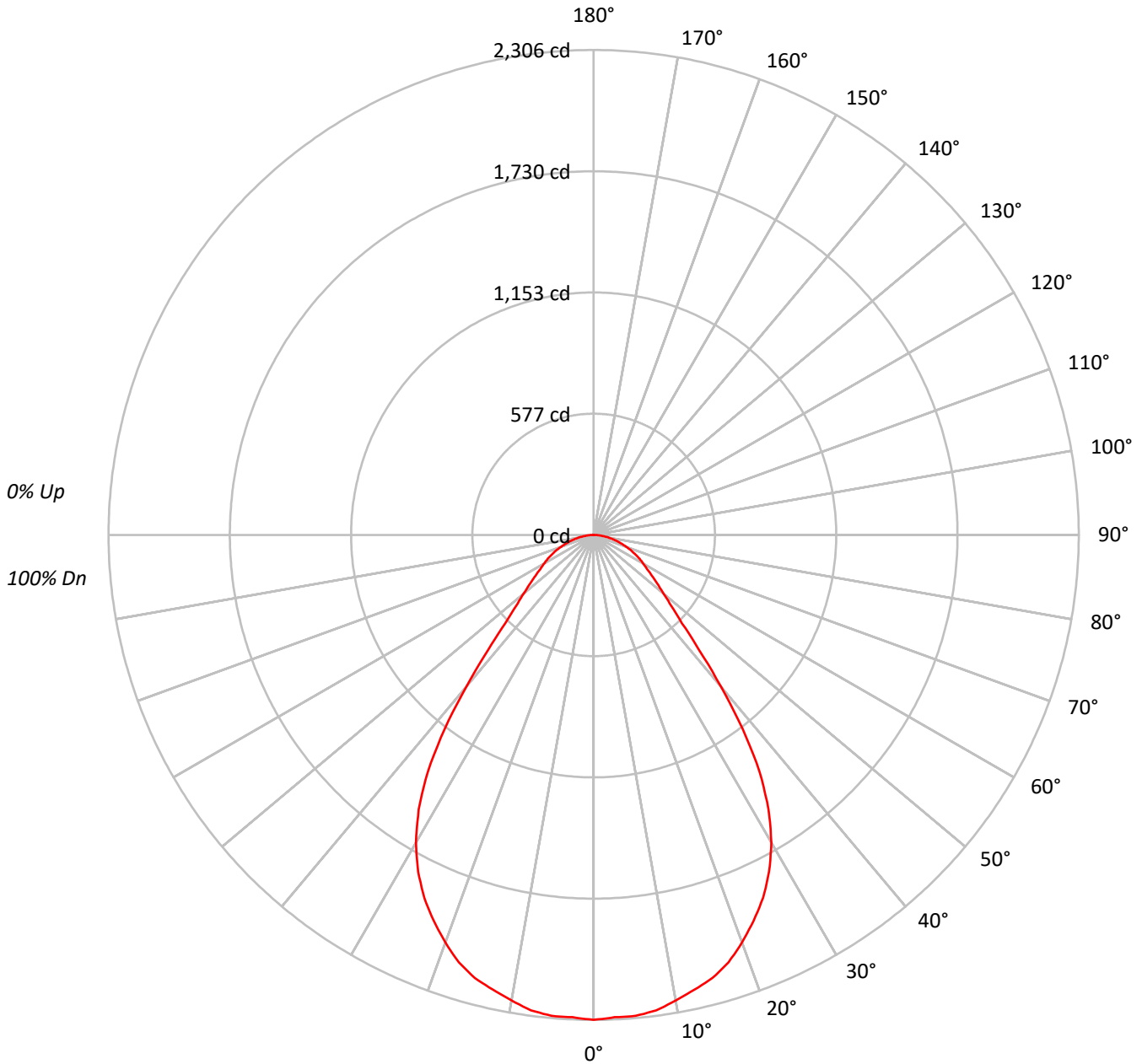
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126404
5°	126331
10°	125109
15°	123803
20°	120311
25°	115228
30°	106941
35°	92013
40°	67162
45°	46013
50°	36997
55°	32247
60°	29756
65°	28304
70°	26431
75°	24718
80°	22414
85°	19121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	5.9
10°-20°	612.7	16.5
20°-30°	871.3	23.5
30°-40°	838.9	22.6
40°-50°	482.6	13.0
50°-60°	305.8	8.3
60°-70°	216.5	5.8
70°-80°	123.4	3.3
80°-90°	35.2	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°	1701.6	45.9
0°-40°	2540.5	68.6
0°-60°	3329.0	89.9
0°-90°	3704.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2306	
5°	2296	218
15°	2181	613
25°	1905	871
35°	1375	839
45°	594	483
55°	337	306
65°	218	216
75°	117	123
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2305.8
2.5°	2295.7
5°	2295.7
7.5°	2280.4
10°	2247.5
12.5°	2214.5
15°	2181.4
17.5°	2130.8
20°	2062.3
22.5°	1986.1
25°	1905.0
27.5°	1806.1
30°	1689.4
32.5°	1547.3
35°	1374.9
37.5°	1164.3
40°	938.5
42.5°	740.6
45°	593.5
47.5°	499.7
50°	433.8
52.5°	380.5
55°	337.4
57.5°	299.3
60°	271.4
62.5°	246.1
65°	218.2
67.5°	192.7
70°	164.9
72.5°	139.5
75°	116.7
77.5°	93.8
80°	71.0
82.5°	50.7
85°	30.4
87.5°	12.7
90°	0.0



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— 0°-180°







(END OF REPORT)