

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: P592999

Luminaire Tested: **HC605D010-HM60525950-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P592999
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: HC605D010-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: 686.2 lumens
Efficiency: N/A
Efficacy: 114.4 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

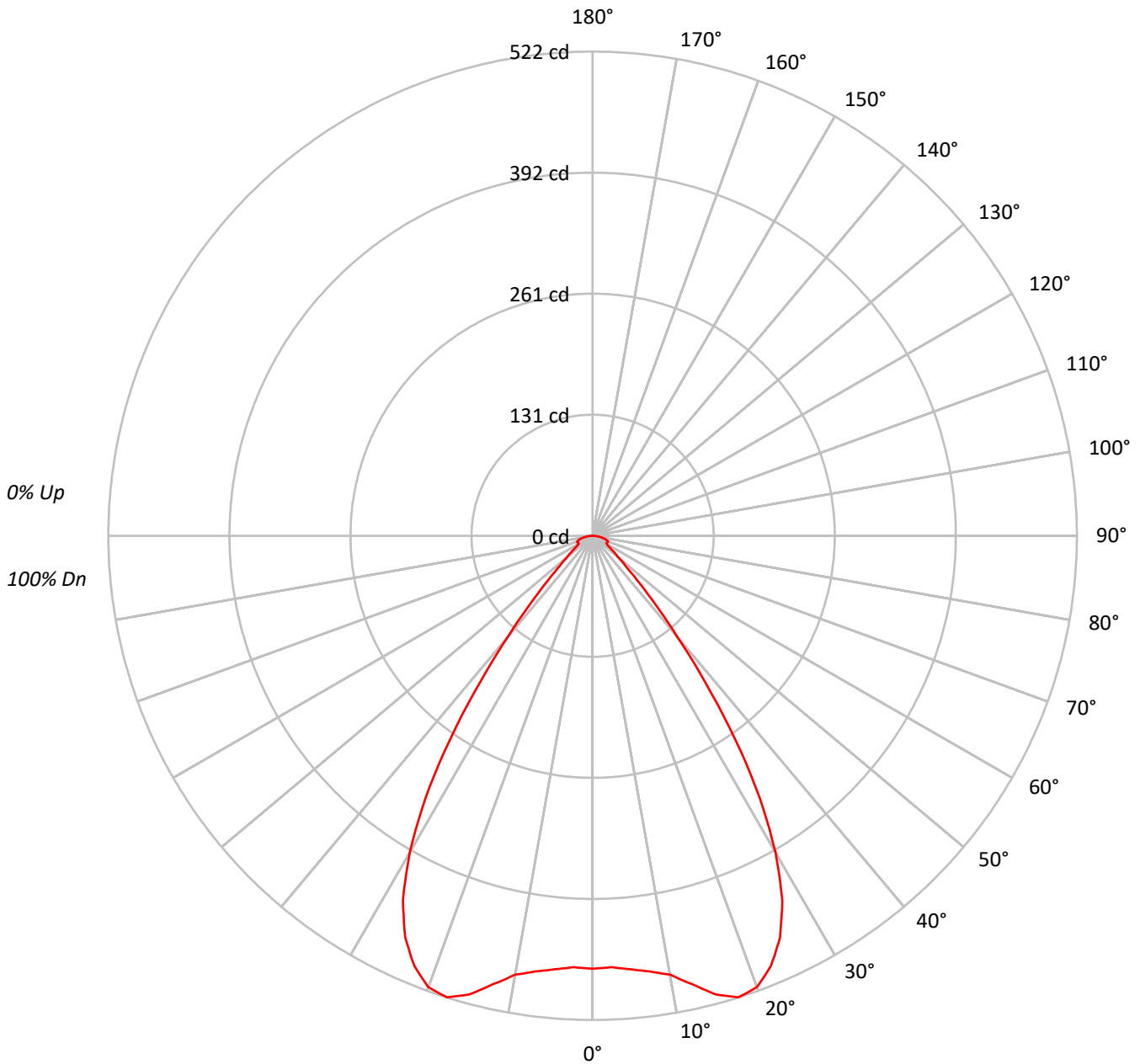
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25590
5°	25814
10°	26742
15°	29047
20°	30213
25°	28901
30°	24934
35°	17955
40°	10119
45°	5241
50°	3121
55°	2246
60°	1908
65°	2218
70°	2789
75°	2965
80°	2904
85°	2768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	6.6
10°-20°	144.3	21.0
20°-30°	215.7	31.4
30°-40°	164.9	24.0
40°-50°	57.6	8.4
50°-60°	21.9	3.2
60°-70°	17.3	2.5
70°-80°	14.6	2.1
80°-90°	4.7	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°	405.2	59.1
0°-40°	570.2	83.1
0°-60°	649.7	94.7
0°-90°	686.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	467	
5°	469	45
15°	512	144
25°	478	216
35°	268	165
45°	68	58
55°	24	22
65°	17	17
75°	14	15
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	466.8
2.5°	465.6
5°	469.1
7.5°	473.8
10°	480.4
12.5°	495.2
15°	511.8
17.5°	521.8
20°	517.9
22.5°	502.2
25°	477.8
27.5°	442.8
30°	393.9
32.5°	335.5
35°	268.3
37.5°	199.0
40°	141.4
42.5°	99.0
45°	67.6
47.5°	47.6
50°	36.6
52.5°	28.8
55°	23.5
57.5°	19.2
60°	17.4
62.5°	17.1
65°	17.1
67.5°	17.9
70°	17.4
72.5°	16.2
75°	14.0
77.5°	11.8
80°	9.2
82.5°	6.6
85°	4.4
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)