

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: P583093

Luminaire Tested: **HC655D010-HM64560930-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583093
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: HC655D010-HM64560930-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4905.4 lumens
Efficiency: N/A
Efficacy: 94.3 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

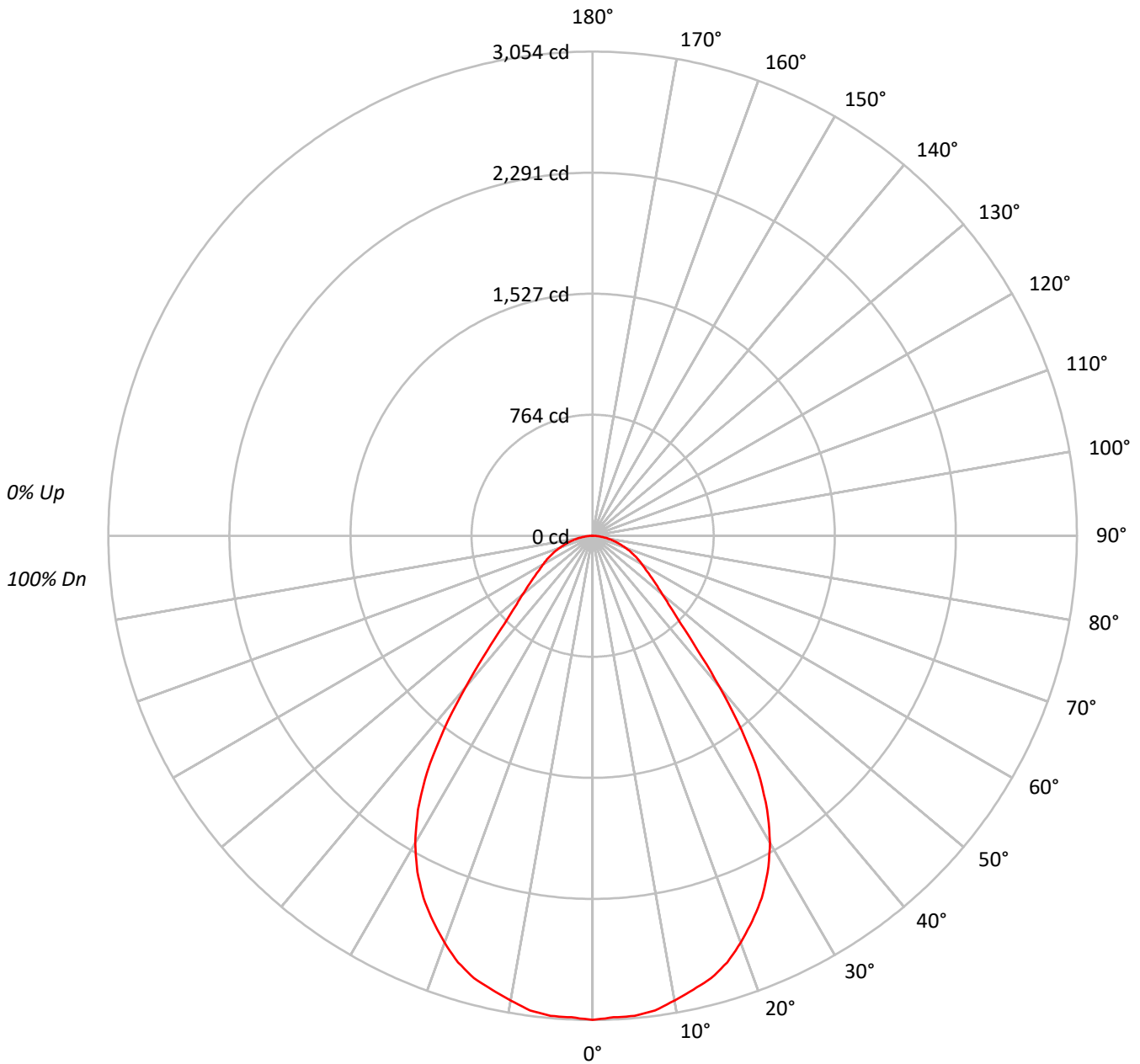
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	167399
5°	167295
10°	165678
15°	163962
20°	159328
25°	152591
30°	141623
35°	121854
40°	88952
45°	60944
50°	48996
55°	42703
60°	39405
65°	37475
70°	35006
75°	32724
80°	29675
85°	25348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.2	5.9
10°-20°	811.4	16.5
20°-30°	1153.9	23.5
30°-40°	1111.0	22.6
40°-50°	639.2	13.0
50°-60°	405.0	8.3
60°-70°	286.7	5.8
70°-80°	163.4	3.3
80°-90°	46.6	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°	2253.5	45.9
0°-40°	3364.4	68.6
0°-60°	4408.7	89.9
0°-90°	4905.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4905.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3054	
5°	3040	288
15°	2889	811
25°	2523	1154
35°	1821	1111
45°	786	639
55°	447	405
65°	289	287
75°	154	163
85°	40	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3053.6
2.5°	3040.1
5°	3040.1
7.5°	3020.0
10°	2976.3
12.5°	2932.7
15°	2889.0
17.5°	2821.8
20°	2731.1
22.5°	2630.3
25°	2522.7
27.5°	2391.8
30°	2237.3
32.5°	2049.2
35°	1820.8
37.5°	1541.9
40°	1243.0
42.5°	980.9
45°	786.1
47.5°	661.8
50°	574.5
52.5°	503.8
55°	446.8
57.5°	396.4
60°	359.4
62.5°	325.8
65°	288.9
67.5°	255.3
70°	218.4
72.5°	184.8
75°	154.5
77.5°	124.3
80°	94.0
82.5°	67.2
85°	40.3
87.5°	16.8
90°	0.0



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— 0°-180°







(END OF REPORT)