

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: P593377

Luminaire Tested: **HC655D010-HM64560850-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593377
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: HC655D010-HM64560850-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6251.5 lumens
Efficiency: N/A
Efficacy: 120.2 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

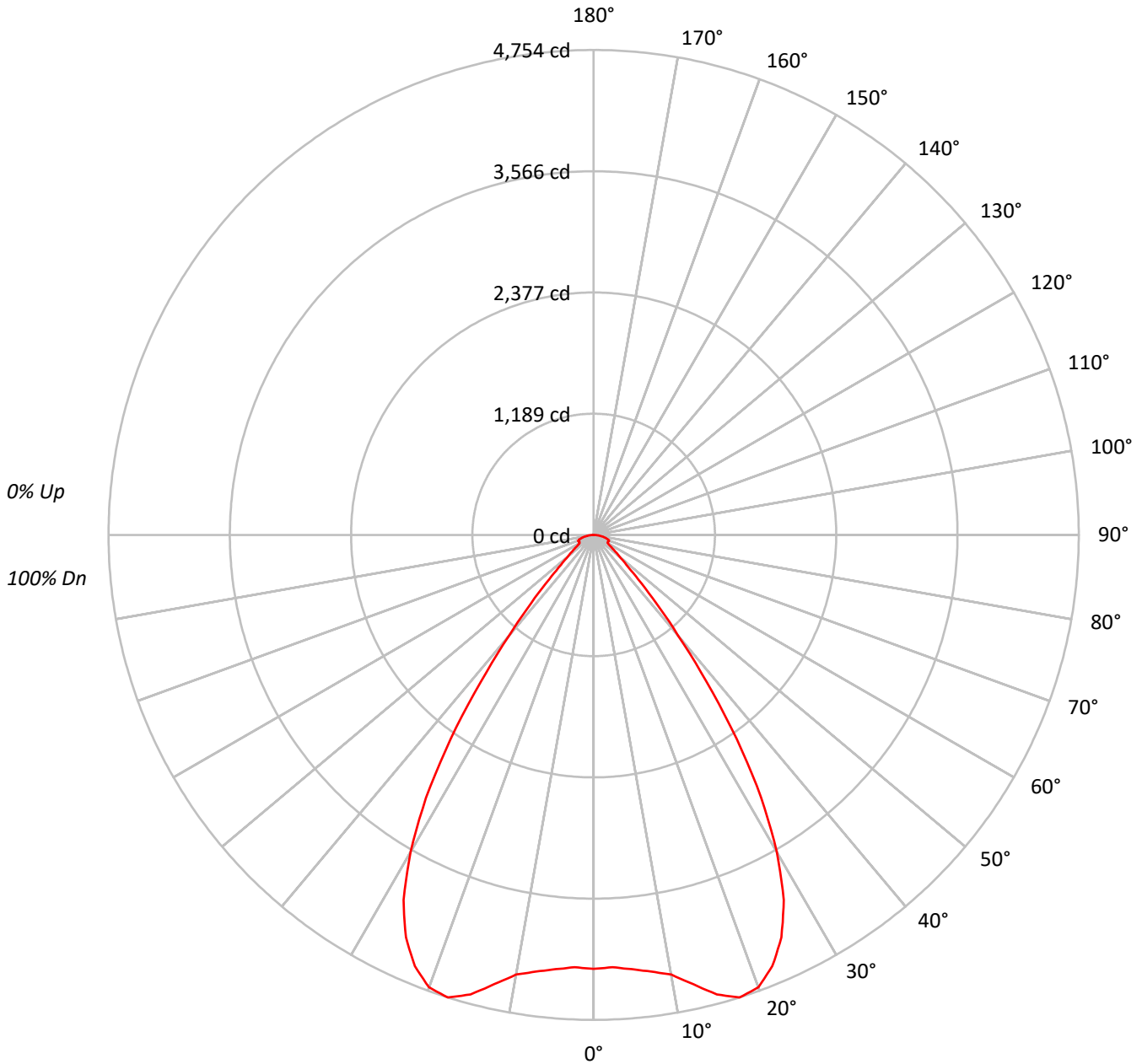
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	233161
5°	235147
10°	243622
15°	264627
20°	275264
25°	263277
30°	227219
35°	163607
40°	92166
45°	47765
50°	28485
55°	20511
60°	17433
65°	20106
70°	25485
75°	26942
80°	26361
85°	24971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.2	6.6
10°-20°	1315.1	21.0
20°-30°	1965.6	31.4
30°-40°	1502.6	24.0
40°-50°	524.8	8.4
50°-60°	200.0	3.2
60°-70°	156.9	2.5
70°-80°	132.7	2.1
80°-90°	42.7	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°	3691.9	59.1
0°-40°	5194.5	83.1
0°-60°	5919.3	94.7
0°-90°	6251.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6251.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4253	
5°	4273	411
15°	4663	1315
25°	4353	1966
35°	2445	1503
45°	616	525
55°	215	200
65°	155	157
75°	127	133
85°	40	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4253.2
2.5°	4241.3
5°	4273.1
7.5°	4316.9
10°	4376.5
12.5°	4511.6
15°	4662.7
17.5°	4754.1
20°	4718.4
22.5°	4575.3
25°	4352.6
27.5°	4034.6
30°	3589.5
32.5°	3056.8
35°	2444.7
37.5°	1812.6
40°	1287.9
42.5°	902.3
45°	616.1
47.5°	433.3
50°	334.0
52.5°	262.4
55°	214.6
57.5°	174.8
60°	159.0
62.5°	155.0
65°	155.0
67.5°	163.0
70°	159.0
72.5°	147.0
75°	127.2
77.5°	107.3
80°	83.5
82.5°	59.6
85°	39.7
87.5°	15.9
90°	0.0



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— 0°-180°







(END OF REPORT)