

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: P593406

Luminaire Tested: **HC655D010-HM64560950-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593406
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-HM64560950-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5119.6 lumens
Efficiency: N/A
Efficacy: 98.5 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

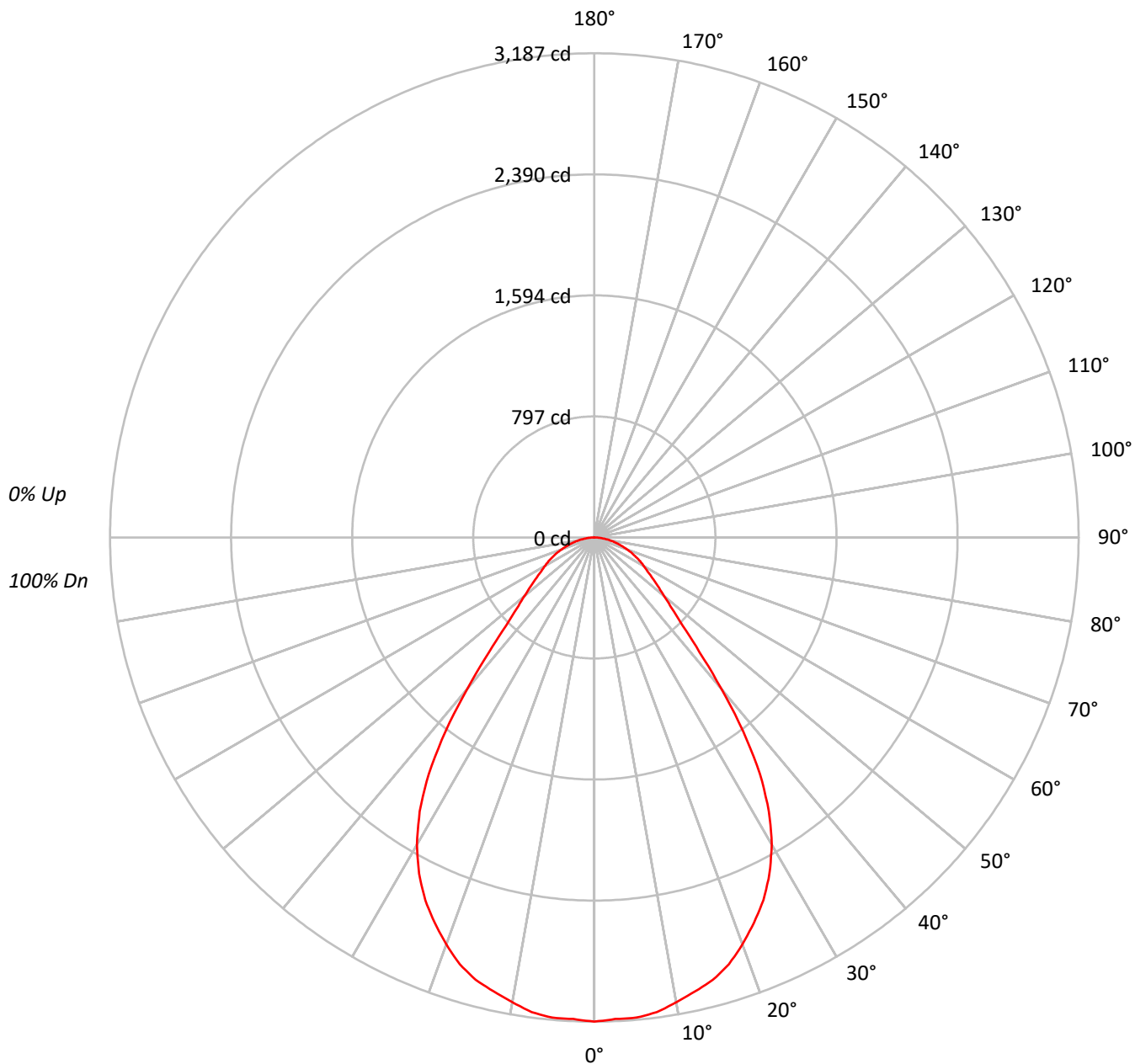
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	174706
5°	174603
10°	172915
15°	171119
20°	166282
25°	159263
30°	147808
35°	127174
40°	92831
45°	63604
50°	51128
55°	44567
60°	41126
65°	39109
70°	36513
75°	34144
80°	31001
85°	26481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	5.9
10°-20°	846.8	16.5
20°-30°	1204.3	23.5
30°-40°	1159.5	22.6
40°-50°	667.1	13.0
50°-60°	422.7	8.3
60°-70°	299.2	5.8
70°-80°	170.6	3.3
80°-90°	48.7	1.0
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°	2351.9	45.9
0°-40°	3511.3	68.6
0°-60°	4601.1	89.9
0°-90°	5119.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5119.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3187	
5°	3173	301
15°	3015	847
25°	2633	1204
35°	1900	1159
45°	820	667
55°	466	423
65°	302	299
75°	161	171
85°	42	49
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3186.9
2.5°	3172.9
5°	3172.9
7.5°	3151.9
10°	3106.3
12.5°	3060.7
15°	3015.1
17.5°	2945.0
20°	2850.3
22.5°	2745.2
25°	2633.0
27.5°	2496.2
30°	2335.0
32.5°	2138.6
35°	1900.3
37.5°	1609.2
40°	1297.2
42.5°	1023.8
45°	820.4
47.5°	690.6
50°	599.5
52.5°	525.8
55°	466.3
57.5°	413.7
60°	375.1
62.5°	340.1
65°	301.5
67.5°	266.4
70°	227.8
72.5°	192.8
75°	161.2
77.5°	129.8
80°	98.2
82.5°	70.2
85°	42.1
87.5°	17.5
90°	0.0



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— 0°-180°







(END OF REPORT)