

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: P583094

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583094
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-HM64560930-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5285.0 lumens
Efficiency: N/A
Efficacy: 101.6 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

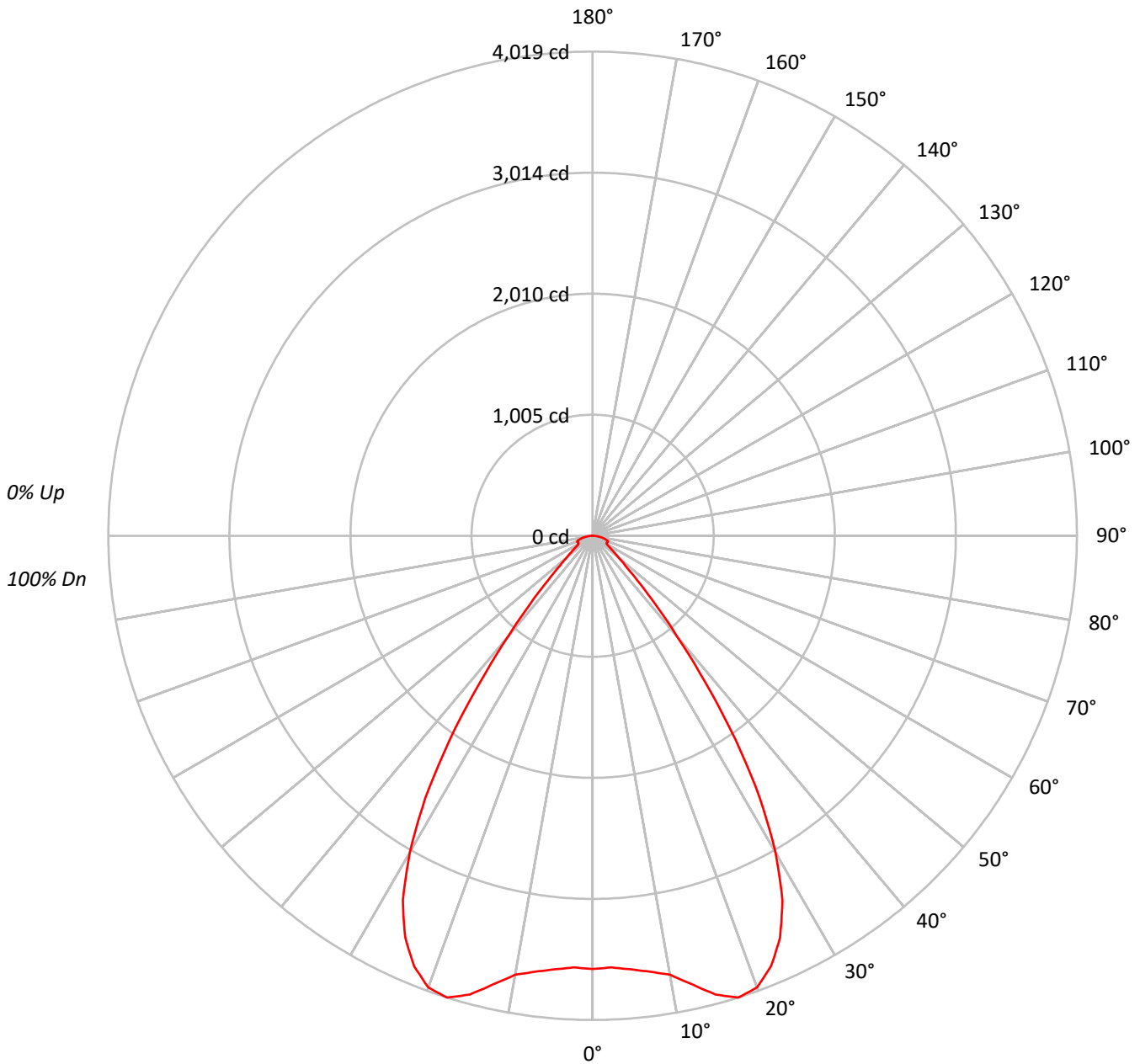
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	197117
5°	198794
10°	205953
15°	223713
20°	232700
25°	222575
30°	192087
35°	138310
40°	77917
45°	40384
50°	24076
55°	17347
60°	14736
65°	17006
70°	21542
75°	22769
80°	22288
85°	21134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	6.6
10°-20°	1111.8	21.0
20°-30°	1661.7	31.4
30°-40°	1270.2	24.0
40°-50°	443.7	8.4
50°-60°	169.1	3.2
60°-70°	132.6	2.5
70°-80°	112.2	2.1
80°-90°	36.1	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°	3121.1	59.1
0°-40°	4391.3	83.1
0°-60°	5004.1	94.7
0°-90°	5285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5285.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3596	
5°	3612	348
15°	3942	1112
25°	3680	1662
35°	2067	1270
45°	521	444
55°	182	169
65°	131	133
75°	108	112
85°	34	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3595.7
2.5°	3585.6
5°	3612.5
7.5°	3649.4
10°	3699.8
12.5°	3814.1
15°	3941.8
17.5°	4019.1
20°	3988.8
22.5°	3867.8
25°	3679.7
27.5°	3410.8
30°	3034.5
32.5°	2584.1
35°	2066.7
37.5°	1532.3
40°	1088.8
42.5°	762.8
45°	520.9
47.5°	366.3
50°	282.3
52.5°	221.8
55°	181.5
57.5°	147.9
60°	134.4
62.5°	131.1
65°	131.1
67.5°	137.8
70°	134.4
72.5°	124.3
75°	107.5
77.5°	90.7
80°	70.6
82.5°	50.4
85°	33.6
87.5°	13.5
90°	0.0



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— 0°-180°







(END OF REPORT)