

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: P583112

Luminaire Tested: **HC655D010-HM64560935-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583112
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-HM64560935-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5347.2 lumens
Efficiency: N/A
Efficacy: 102.8 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

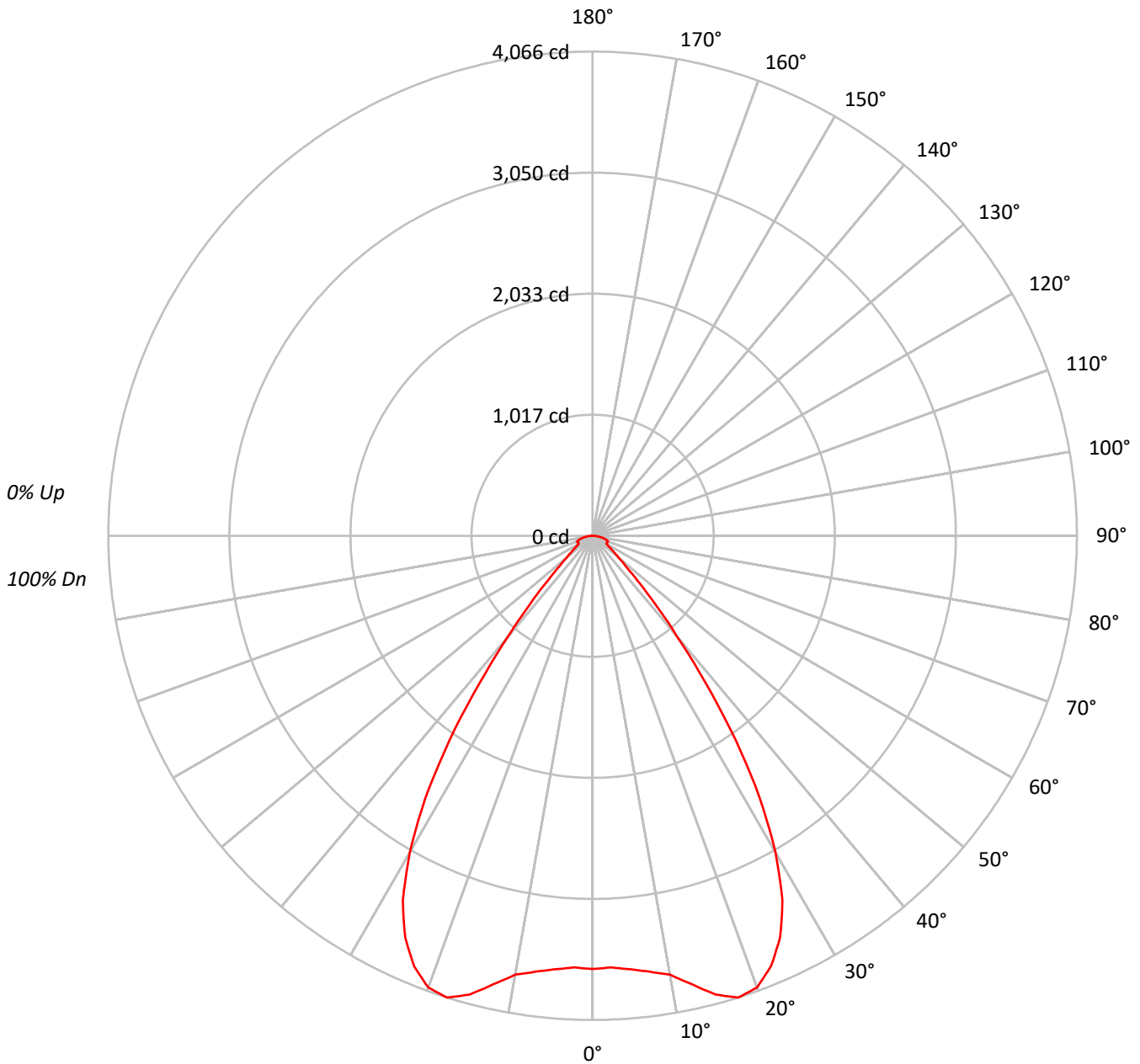
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	199436
5°	201128
10°	208380
15°	226341
20°	235436
25°	225188
30°	194340
35°	139936
40°	78833
45°	40857
50°	24357
55°	17548
60°	14911
65°	17200
70°	21799
75°	23045
80°	22572
85°	21386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	6.6
10°-20°	1124.8	21.0
20°-30°	1681.3	31.4
30°-40°	1285.2	24.0
40°-50°	448.9	8.4
50°-60°	171.1	3.2
60°-70°	134.2	2.5
70°-80°	113.5	2.1
80°-90°	36.6	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°	3157.8	59.1
0°-40°	4443.0	83.1
0°-60°	5062.9	94.7
0°-90°	5347.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5347.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3638	
5°	3655	352
15°	3988	1125
25°	3723	1681
35°	2091	1285
45°	527	449
55°	184	171
65°	133	134
75°	109	114
85°	34	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3638.0
2.5°	3627.7
5°	3654.9
7.5°	3692.3
10°	3743.4
12.5°	3858.9
15°	3988.1
17.5°	4066.3
20°	4035.7
22.5°	3913.4
25°	3722.9
27.5°	3450.9
30°	3070.1
32.5°	2614.5
35°	2091.0
37.5°	1550.3
40°	1101.6
42.5°	771.8
45°	527.0
47.5°	370.6
50°	285.6
52.5°	224.4
55°	183.6
57.5°	149.6
60°	136.0
62.5°	132.6
65°	132.6
67.5°	139.4
70°	136.0
72.5°	125.8
75°	108.8
77.5°	91.8
80°	71.5
82.5°	51.0
85°	34.0
87.5°	13.6
90°	0.0



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— 0°-180°







(END OF REPORT)