

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: P583100

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560935-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4816.8 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

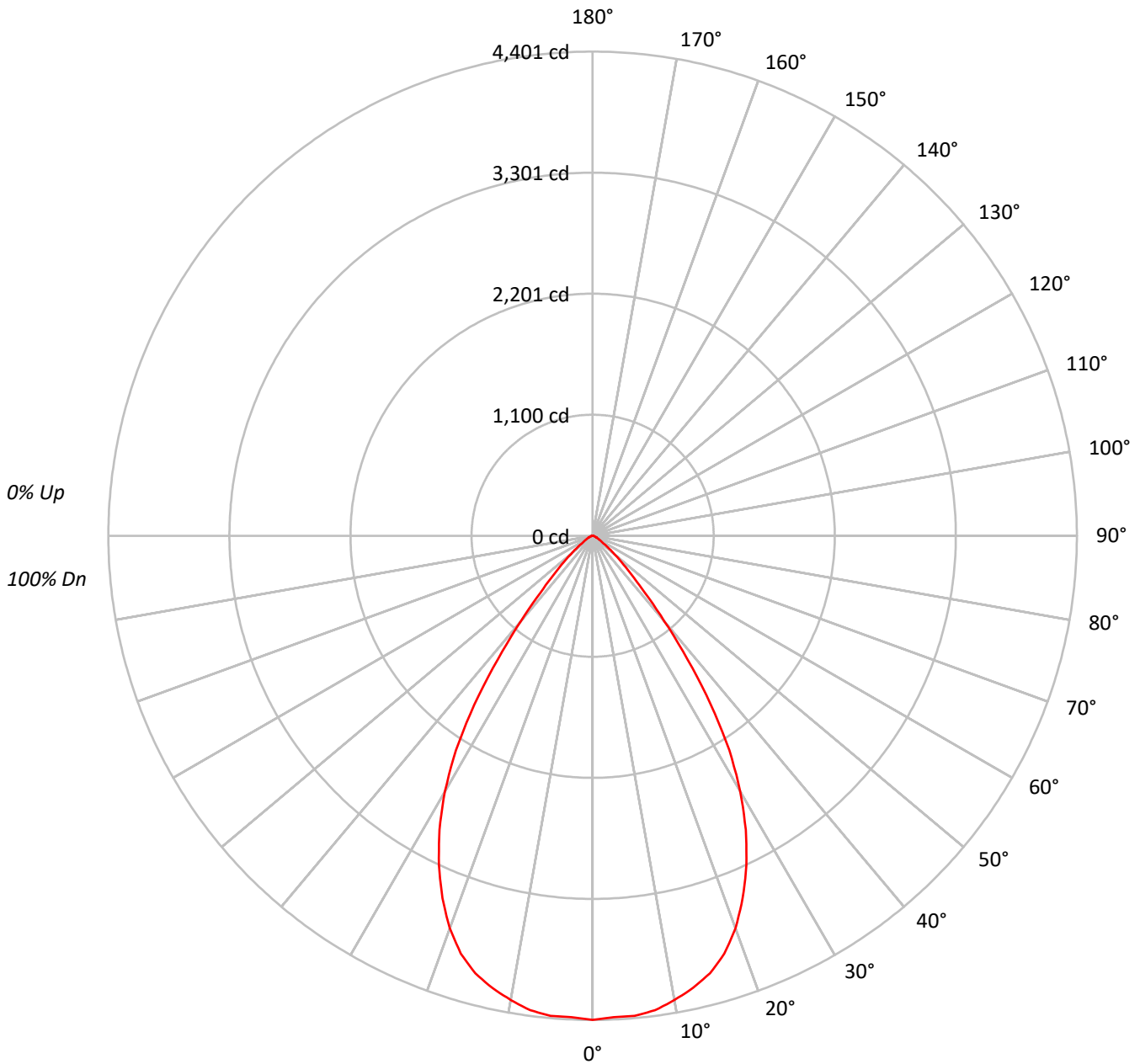
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	241242
5°	241046
10°	238534
15°	233736
20°	221412
25°	199953
30°	169855
35°	125407
40°	72529
45°	38492
50°	21756
55°	11374
60°	7456
65°	5292
70°	3815
75°	2881
80°	2115
85°	2139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.1	8.6
10°-20°	1151.9	23.9
20°-30°	1503.4	31.2
30°-40°	1148.9	23.9
40°-50°	416.0	8.6
50°-60°	120.8	2.5
60°-70°	43.2	0.9
70°-80°	14.8	0.3
80°-90°	2.8	0.1
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°	3070.4	63.7
0°-40°	4219.3	87.6
0°-60°	4756.1	98.7
0°-90°	4816.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4816.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4401	
5°	4380	415
15°	4118	1152
25°	3306	1503
35°	1874	1149
45°	496	416
55°	119	121
65°	41	43
75°	14	15
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4400.6
2.5°	4380.3
5°	4380.3
7.5°	4349.7
10°	4285.1
12.5°	4210.2
15°	4118.4
17.5°	3982.3
20°	3795.3
22.5°	3564.0
25°	3305.7
27.5°	3013.1
30°	2683.3
32.5°	2312.5
35°	1873.9
37.5°	1414.7
40°	1013.5
42.5°	700.6
45°	496.5
47.5°	357.0
50°	255.1
52.5°	180.3
55°	119.0
57.5°	85.1
60°	68.0
62.5°	54.4
65°	40.8
67.5°	34.0
70°	23.8
72.5°	17.0
75°	13.6
77.5°	10.2
80°	6.7
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)