

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: P593400

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560950-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5529.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

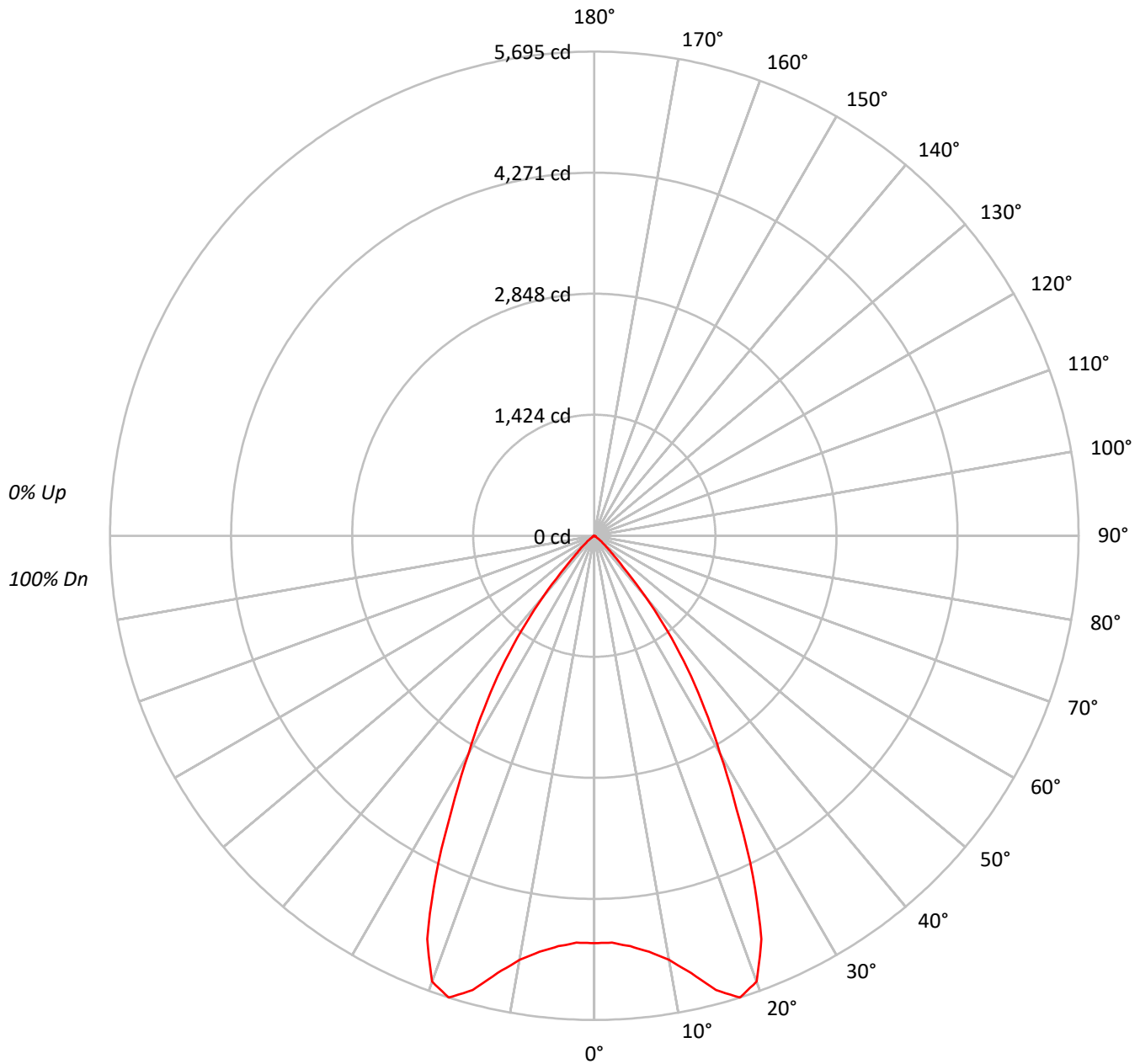
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	111	108	106	111	109	106	104		105	103	101			101	99	98			97
2	108	103	99	96	106	101	98	95		98	95	93			95	93	91			92
3	102	96	91	87	100	95	90	86		92	88	85			90	86	84			87
4	97	90	84	80	95	89	83	79		86	82	79			84	81	78			83
5	92	84	78	74	91	83	78	73		81	76	73			80	75	72			78
6	88	79	73	68	86	78	72	68		76	71	68			75	71	67			74
7	83	74	68	64	82	73	68	63		72	67	63			71	66	63			70
8	79	70	63	59	78	69	63	59		68	63	59			67	62	59			66
9	75	66	60	56	74	65	59	55		64	59	55			63	58	55			62
10	72	62	56	52	71	61	56	52		61	55	52			60	55	52			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	262600
5°	266695
10°	281875
15°	313861
20°	325487
25°	267058
30°	187130
35°	127669
40°	66496
45°	23375
50°	10473
55°	3345
60°	1919
65°	1362
70°	1122
75°	741
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.4	8.5
10°-20°	1555.3	28.1
20°-30°	1980.3	35.8
30°-40°	1180.2	21.3
40°-50°	286.2	5.2
50°-60°	43.9	0.8
60°-70°	10.8	0.2
70°-80°	3.7	0.1
80°-90°	0.0	0.0
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°	4005.1	72.4
0°-40°	5185.3	93.8
0°-60°	5515.4	99.7
0°-90°	5529.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5529.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4790	
5°	4846	469
15°	5530	1555
25°	4415	1980
35°	1908	1180
45°	302	286
55°	35	44
65°	10	11
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4790.2
2.5°	4790.2
5°	4846.4
7.5°	4934.1
10°	5063.7
12.5°	5267.2
15°	5530.2
17.5°	5695.0
20°	5579.3
22.5°	5133.9
25°	4415.1
27.5°	3622.5
30°	2956.2
32.5°	2416.2
35°	1907.7
37.5°	1406.2
40°	929.2
42.5°	501.5
45°	301.5
47.5°	189.4
50°	122.8
52.5°	73.7
55°	35.0
57.5°	21.1
60°	17.5
62.5°	14.1
65°	10.5
67.5°	7.0
70°	7.0
72.5°	3.5
75°	3.5
77.5°	3.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)