

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: P582811

Luminaire Tested: **HC650D010-HM64560935-61MDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582811
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: HC650D010-HM64560935-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5118.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

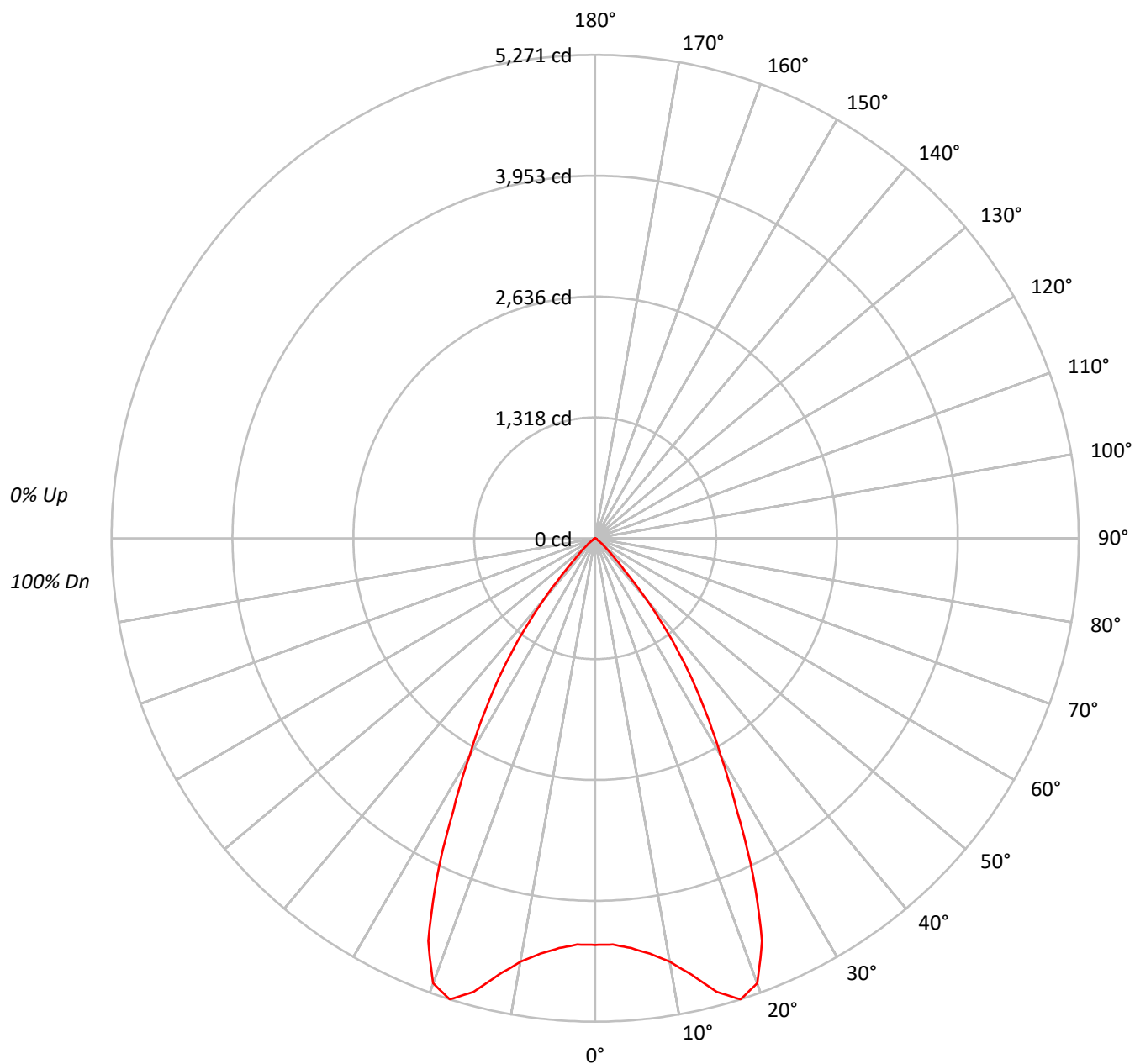
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	243045
5°	246830
10°	260884
15°	290478
20°	301242
25°	247157
30°	173191
35°	118159
40°	61551
45°	21638
50°	9688
55°	3106
60°	1776
65°	1258
70°	1042
75°	678
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.5	8.5
10°-20°	1439.4	28.1
20°-30°	1832.8	35.8
30°-40°	1092.3	21.3
40°-50°	264.9	5.2
50°-60°	40.7	0.8
60°-70°	10.0	0.2
70°-80°	3.4	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°	3706.7	72.4
0°-40°	4799.1	93.8
0°-60°	5104.6	99.7
0°-90°	5118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5118.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4434	
5°	4485	434
15°	5118	1439
25°	4086	1833
35°	1766	1092
45°	279	265
55°	32	41
65°	10	10
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4433.5
2.5°	4433.5
5°	4485.4
7.5°	4566.6
10°	4686.6
12.5°	4874.8
15°	5118.2
17.5°	5270.8
20°	5163.7
22.5°	4751.5
25°	4086.1
27.5°	3352.6
30°	2736.0
32.5°	2236.2
35°	1765.6
37.5°	1301.5
40°	860.1
42.5°	464.1
45°	279.1
47.5°	175.3
50°	113.6
52.5°	68.1
55°	32.5
57.5°	19.5
60°	16.2
62.5°	13.0
65°	9.7
67.5°	6.5
70°	6.5
72.5°	3.2
75°	3.2
77.5°	3.2
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)