

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: P583002

Luminaire Tested: **HC655D010-HM64560827-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560827-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5002.2 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

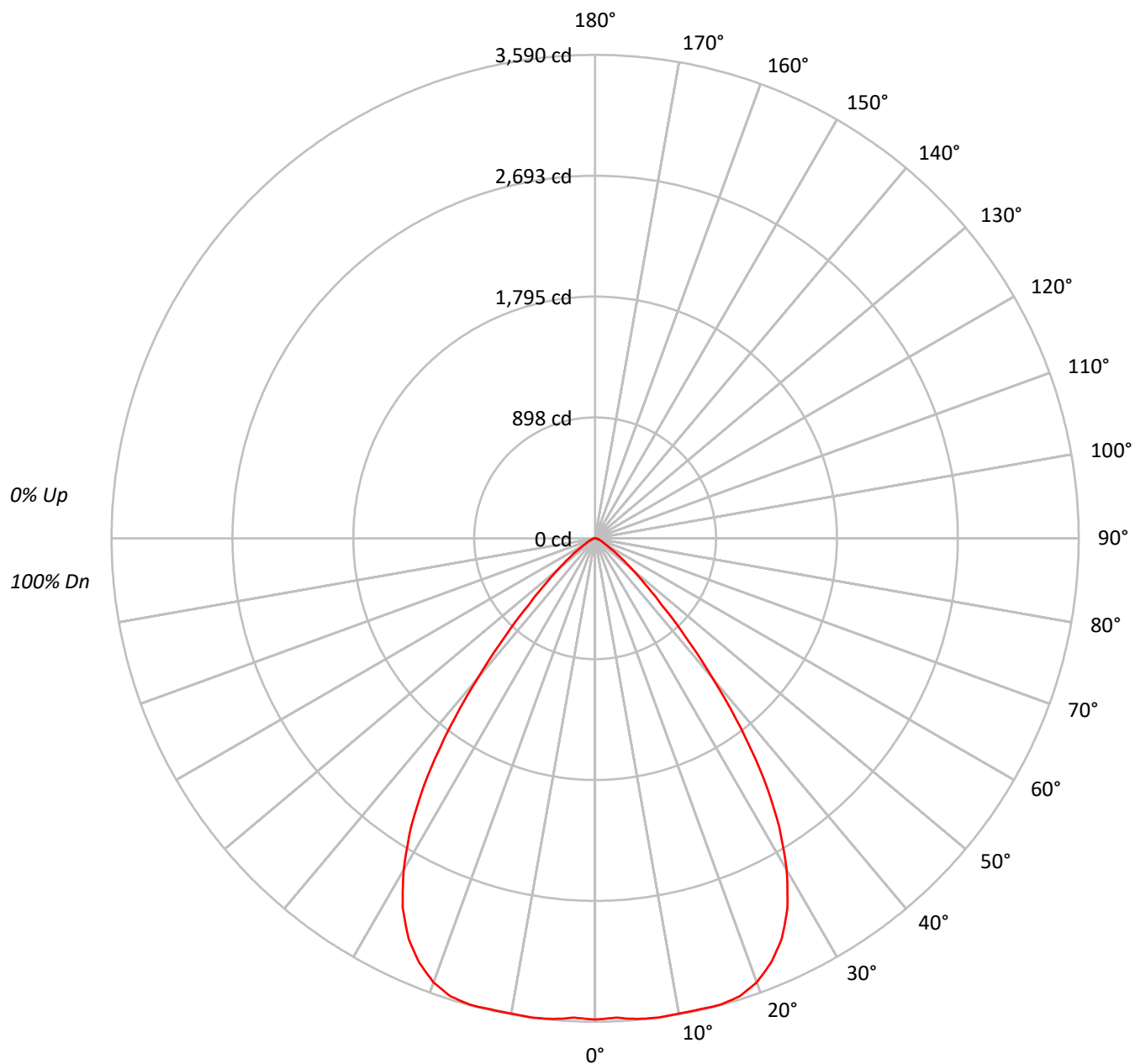
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	103	101	100		100	98	97		96
2	106	101	96	93	104	99	95	92	96	92	90		93	90	88		90
3	100	93	87	83	98	91	86	82	89	84	81		86	83	80		84
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78
5	89	79	73	68	87	78	72	68	76	71	67		75	70	66		73
6	83	73	67	62	82	73	66	62	71	65	61		70	65	61		68
7	79	68	62	57	77	68	61	57	66	60	56		65	60	56		64
8	74	64	57	52	73	63	57	52	62	56	52		61	56	52		60
9	70	59	53	48	69	59	53	48	58	52	48		57	52	48		56
10	66	56	49	45	65	55	49	45	54	49	45		53	48	45		53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	195905
5°	197215
10°	199495
15°	203582
20°	204727
25°	198350
30°	179939
35°	146301
40°	97111
45°	54044
50°	30310
55°	16821
60°	9276
65°	7031
70°	4873
75°	3580
80°	2115
85°	2139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	6.8
10°-20°	1011.4	20.2
20°-30°	1490.8	29.8
30°-40°	1333.4	26.7
40°-50°	578.5	11.6
50°-60°	170.0	3.4
60°-70°	54.3	1.1
70°-80°	19.1	0.4
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°	2844.3	56.9
0°-40°	4177.6	83.5
0°-60°	4926.1	98.5
0°-90°	5002.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3574	
5°	3584	342
15°	3587	1011
25°	3279	1491
35°	2186	1333
45°	697	578
55°	176	170
65°	54	54
75°	17	19
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3573.6
2.5°	3563.4
5°	3583.8
7.5°	3590.5
10°	3583.8
12.5°	3583.8
15°	3587.1
17.5°	3566.9
20°	3509.3
22.5°	3411.2
25°	3279.2
27.5°	3093.1
30°	2842.6
32.5°	2544.9
35°	2186.1
37.5°	1776.6
40°	1357.0
42.5°	991.6
45°	697.1
47.5°	497.5
50°	355.4
52.5°	253.8
55°	176.0
57.5°	118.4
60°	84.6
62.5°	67.7
65°	54.2
67.5°	40.6
70°	30.4
72.5°	23.7
75°	16.9
77.5°	13.5
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)