

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: P583001

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560827-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5455.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

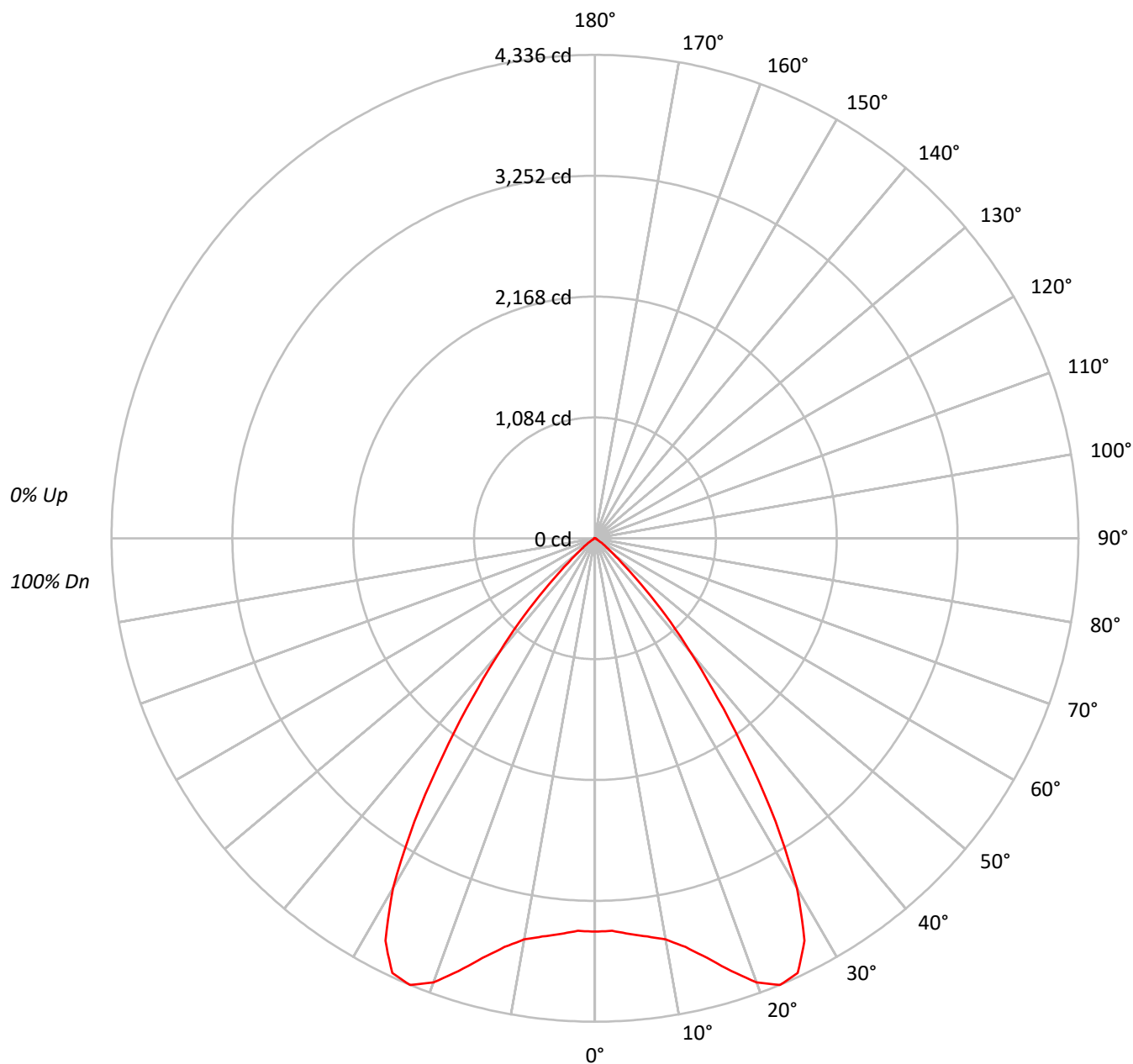
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	82		88	84	81		85
4	95	87	81	77	93	86	80	76	84	79	75		82	78	74		80
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	63	59	79	69	63	59	68	62	58		67	62	58		66
8	76	65	59	54	74	65	59	54	64	58	54		62	57	54		61
9	71	61	55	50	70	60	54	50	60	54	50		59	53	50		58
10	68	57	51	47	67	57	51	47	56	50	46		55	50	46		54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	193411
5°	196010
10°	203359
15°	221153
20°	247256
25°	260253
30°	229111
35°	158909
40°	94892
45°	45105
50°	17023
55°	7111
60°	2226
65°	1751
70°	1074
75°	720
80°	1073
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.8	6.3
10°-20°	1118.9	20.5
20°-30°	1917.3	35.1
30°-40°	1489.0	27.3
40°-50°	492.2	9.0
50°-60°	75.5	1.4
60°-70°	13.3	0.2
70°-80°	4.9	0.1
80°-90°	1.4	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°	3379.0	61.9
0°-40°	4868.0	89.2
0°-60°	5435.8	99.6
0°-90°	5455.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5455.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3528	
5°	3562	343
15°	3897	1119
25°	4303	1917
35°	2374	1489
45°	582	492
55°	74	76
65°	14	13
75°	3	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3528.1
2.5°	3524.6
5°	3561.9
7.5°	3602.5
10°	3653.2
12.5°	3754.6
15°	3896.7
17.5°	4069.3
20°	4238.3
22.5°	4336.4
25°	4302.6
27.5°	4069.3
30°	3619.4
32.5°	3013.8
35°	2374.5
37.5°	1802.9
40°	1326.0
42.5°	936.9
45°	581.8
47.5°	324.7
50°	199.6
52.5°	121.7
55°	74.4
57.5°	37.3
60°	20.3
62.5°	16.9
65°	13.5
67.5°	10.2
70°	6.7
72.5°	6.7
75°	3.4
77.5°	3.4
80°	3.4
82.5°	3.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)