

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: P583091

Luminaire Tested: **HC655D010-HM64560930-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583091
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-HM64560930-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5419.4 lumens
Efficiency: N/A
Efficacy: 104.2 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

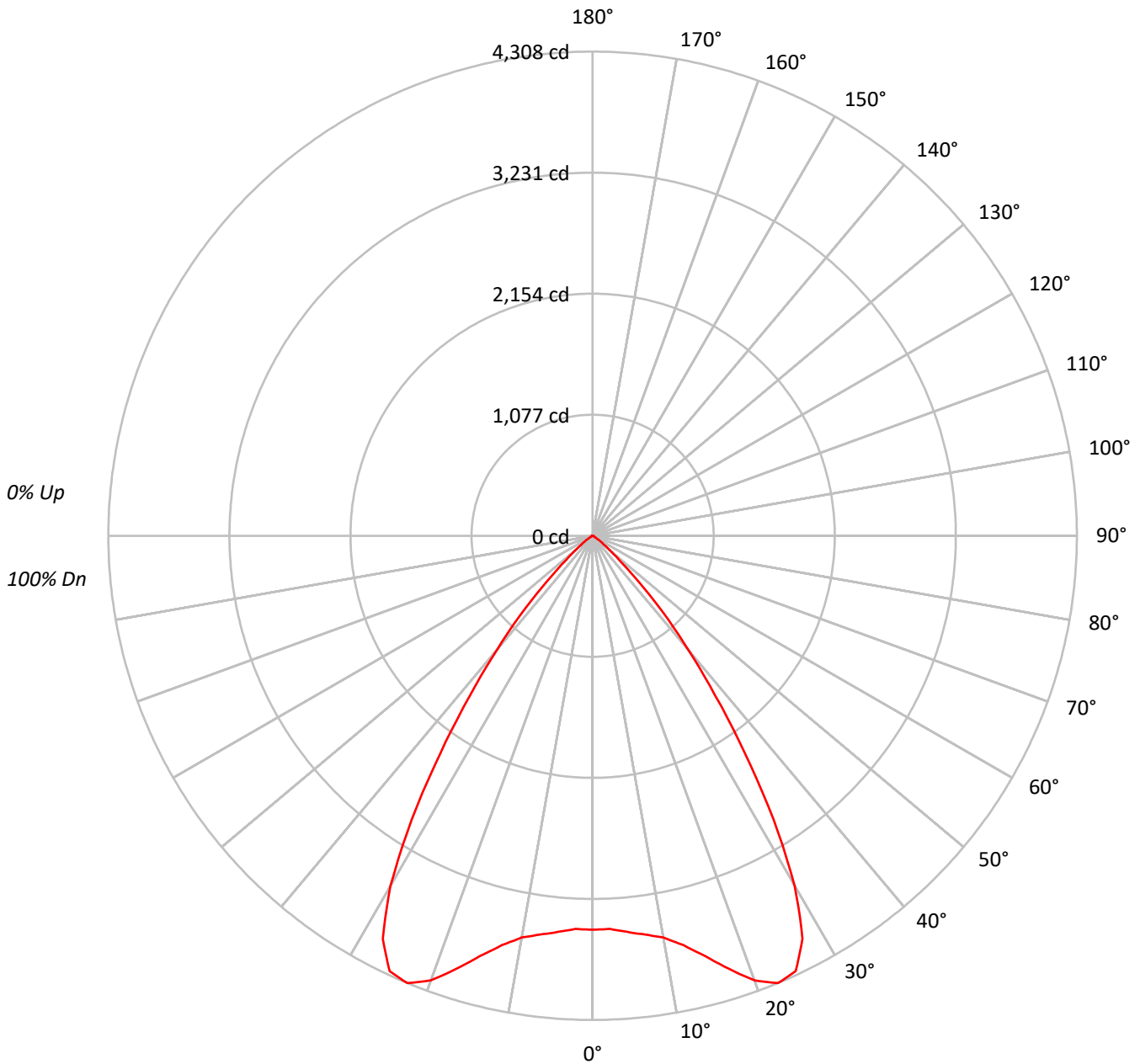
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC655D010-HM64560930-61WDC

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	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	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	82	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	192134
5°	194717
10°	202017
15°	219695
20°	245628
25°	258535
30°	227598
35°	157865
40°	94269
45°	44811
50°	16912
55°	7063
60°	2204
65°	1751
70°	1074
75°	699
80°	1042
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.5	6.3
10°-20°	1111.5	20.5
20°-30°	1904.7	35.1
30°-40°	1479.2	27.3
40°-50°	489.0	9.0
50°-60°	75.0	1.4
60°-70°	13.3	0.2
70°-80°	4.8	0.1
80°-90°	1.3	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°	3356.8	61.9
0°-40°	4836.0	89.2
0°-60°	5400.0	99.6
0°-90°	5419.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5419.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3505	
5°	3538	341
15°	3871	1112
25°	4274	1905
35°	2359	1479
45°	578	489
55°	74	75
65°	14	13
75°	3	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3504.8
2.5°	3501.3
5°	3538.4
7.5°	3578.7
10°	3629.1
12.5°	3729.9
15°	3871.0
17.5°	4042.4
20°	4210.4
22.5°	4307.9
25°	4274.2
27.5°	4042.4
30°	3595.5
32.5°	2993.9
35°	2358.9
37.5°	1791.1
40°	1317.3
42.5°	930.8
45°	578.0
47.5°	322.6
50°	198.3
52.5°	121.0
55°	73.9
57.5°	36.9
60°	20.1
62.5°	16.8
65°	13.5
67.5°	10.1
70°	6.7
72.5°	6.7
75°	3.3
77.5°	3.3
80°	3.3
82.5°	3.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)