

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: P593388

Luminaire Tested: **HC655D010-HM64560850-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560850-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5802.4 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

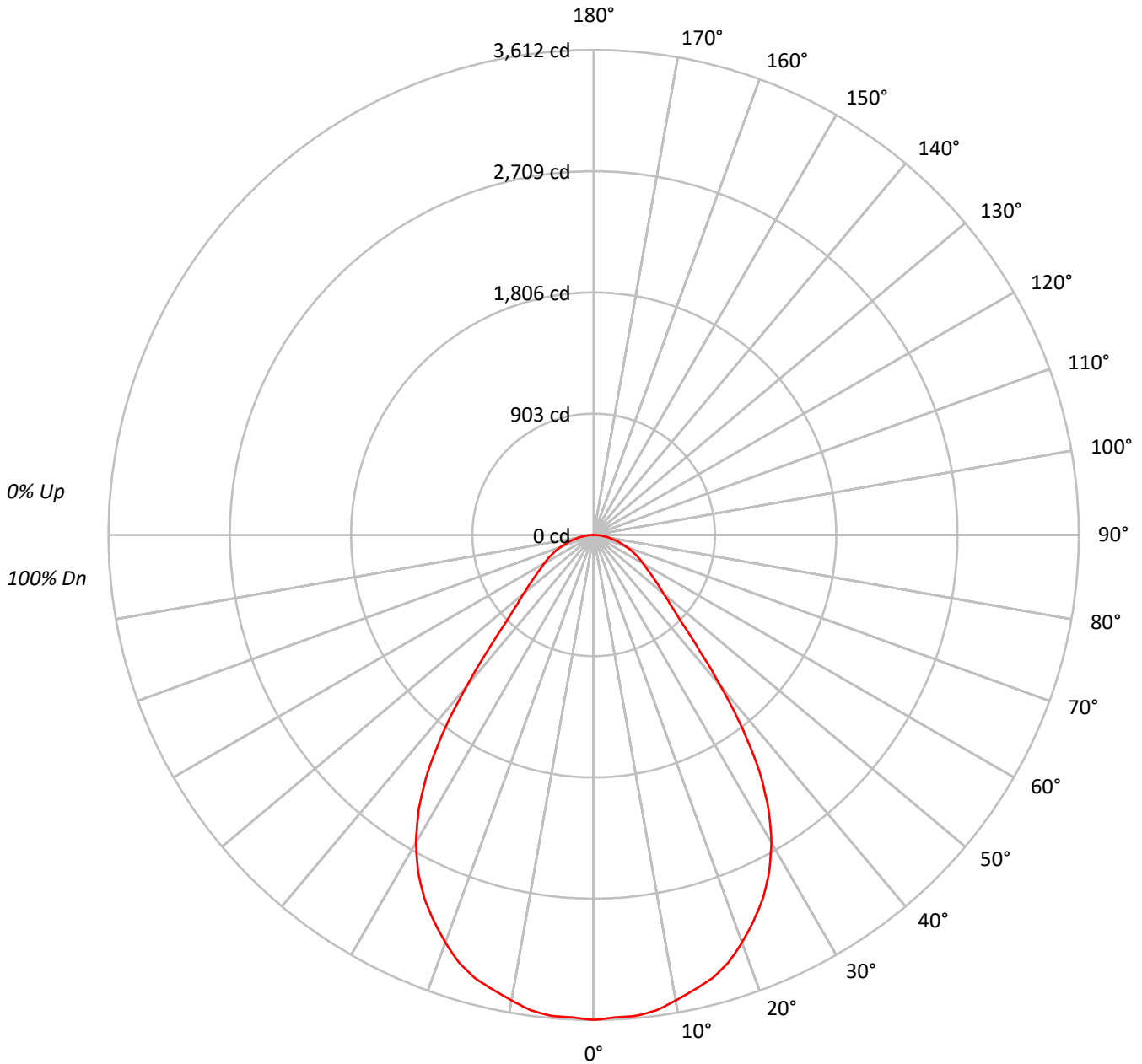
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	198016
5°	197892
10°	195977
15°	193945
20°	188462
25°	180506
30°	167519
35°	144132
40°	105211
45°	72085
50°	57951
55°	50502
60°	46619
65°	44337
70°	41385
75°	38719
80°	35105
85°	30003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.9	5.9
10°-20°	959.7	16.5
20°-30°	1365.0	23.5
30°-40°	1314.1	22.6
40°-50°	756.1	13.0
50°-60°	479.1	8.3
60°-70°	339.1	5.8
70°-80°	193.3	3.3
80°-90°	55.1	1.0
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°	2665.6	45.9
0°-40°	3979.7	68.6
0°-60°	5214.8	89.9
0°-90°	5802.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5802.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3612	
5°	3596	341
15°	3417	960
25°	2984	1365
35°	2154	1314
45°	930	756
55°	528	479
65°	342	339
75°	183	193
85°	48	55
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3612.1
2.5°	3596.1
5°	3596.1
7.5°	3572.3
10°	3520.6
12.5°	3468.9
15°	3417.3
17.5°	3337.8
20°	3230.5
22.5°	3111.3
25°	2984.2
27.5°	2829.3
30°	2646.4
32.5°	2423.8
35°	2153.7
37.5°	1823.8
40°	1470.2
42.5°	1160.3
45°	929.8
47.5°	782.8
50°	679.5
52.5°	596.0
55°	528.4
57.5°	468.9
60°	425.2
62.5°	385.4
65°	341.8
67.5°	302.0
70°	258.2
72.5°	218.5
75°	182.8
77.5°	147.0
80°	111.2
82.5°	79.5
85°	47.7
87.5°	19.9
90°	0.0



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— 0°-180°







(END OF REPORT)