

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: P582705

Luminaire Tested: **HC650D010-HM64560827-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560827-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4459.2 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

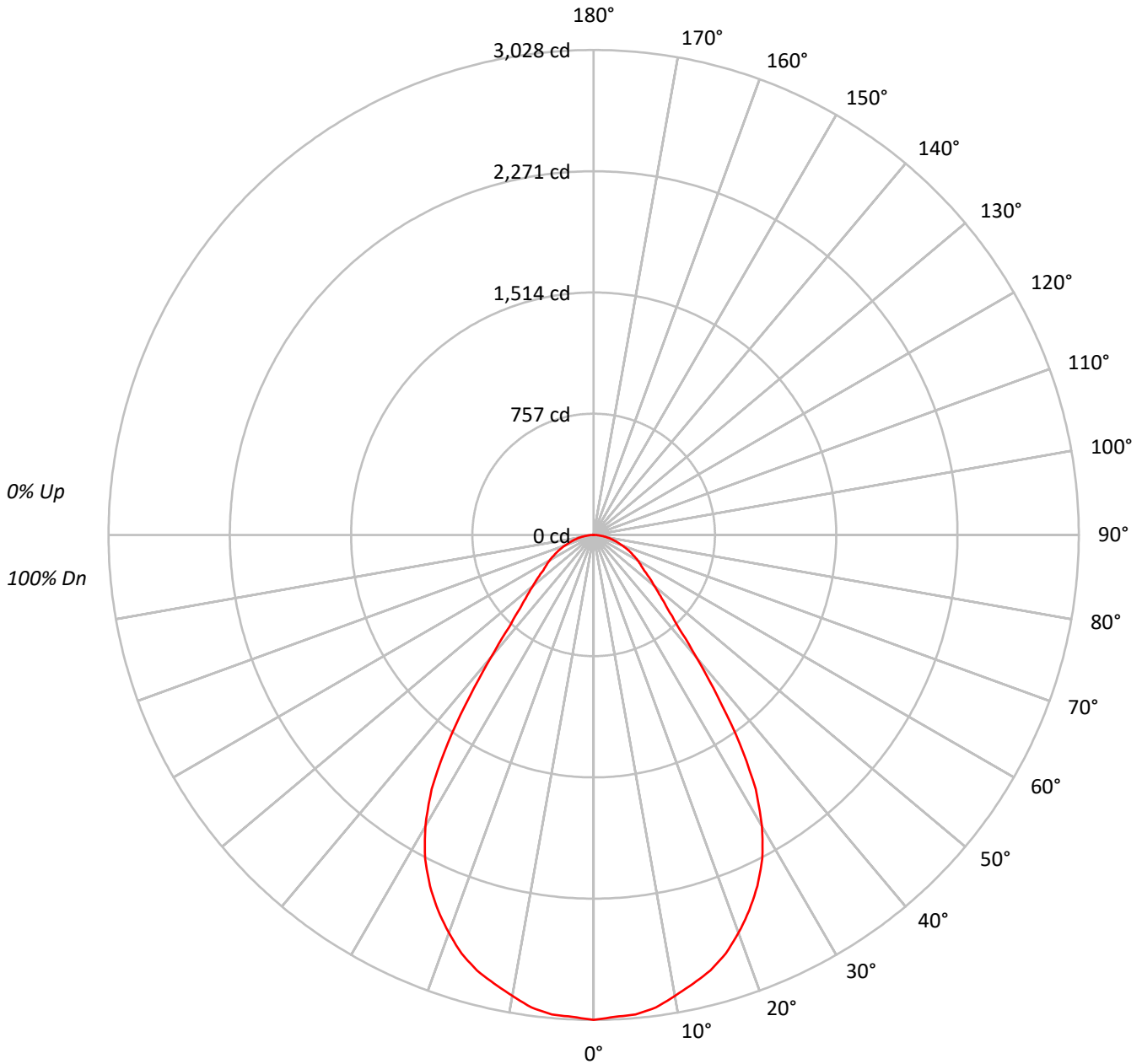
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	166001
5°	165391
10°	162633
15°	159763
20°	154241
25°	146258
30°	133033
35°	106294
40°	70926
45°	50556
50°	42122
55°	36720
60°	34690
65°	32662
70°	30005
75°	28043
80°	25477
85°	22329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.3	6.4
10°-20°	790.4	17.7
20°-30°	1104.5	24.8
30°-40°	973.0	21.8
40°-50°	525.7	11.8
50°-60°	351.5	7.9
60°-70°	249.1	5.6
70°-80°	140.0	3.1
80°-90°	40.8	0.9
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°	2179.2	48.9
0°-40°	3152.1	70.7
0°-60°	4029.3	90.4
0°-90°	4459.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4459.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3028	
5°	3006	284
15°	2815	790
25°	2418	1105
35°	1588	973
45°	652	526
55°	384	351
65°	252	249
75°	132	140
85°	36	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3028.1
2.5°	3012.0
5°	3005.5
7.5°	2976.5
10°	2921.6
12.5°	2869.9
15°	2815.0
17.5°	2740.7
20°	2643.9
22.5°	2537.4
25°	2418.0
27.5°	2279.2
30°	2101.6
32.5°	1882.0
35°	1588.3
37.5°	1268.7
40°	991.1
42.5°	781.2
45°	652.1
47.5°	565.0
50°	493.9
52.5°	435.8
55°	384.2
57.5°	348.6
60°	316.4
62.5°	284.0
65°	251.8
67.5°	219.5
70°	187.2
72.5°	158.1
75°	132.4
77.5°	106.5
80°	80.7
82.5°	58.1
85°	35.5
87.5°	16.2
90°	0.0



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— 0°-180°







(END OF REPORT)