

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: P582795

Luminaire Tested: **HC650D010-HM64560930-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582795
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-HM64560930-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4429.9 lumens
Efficiency: N/A
Efficacy: 92.3 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

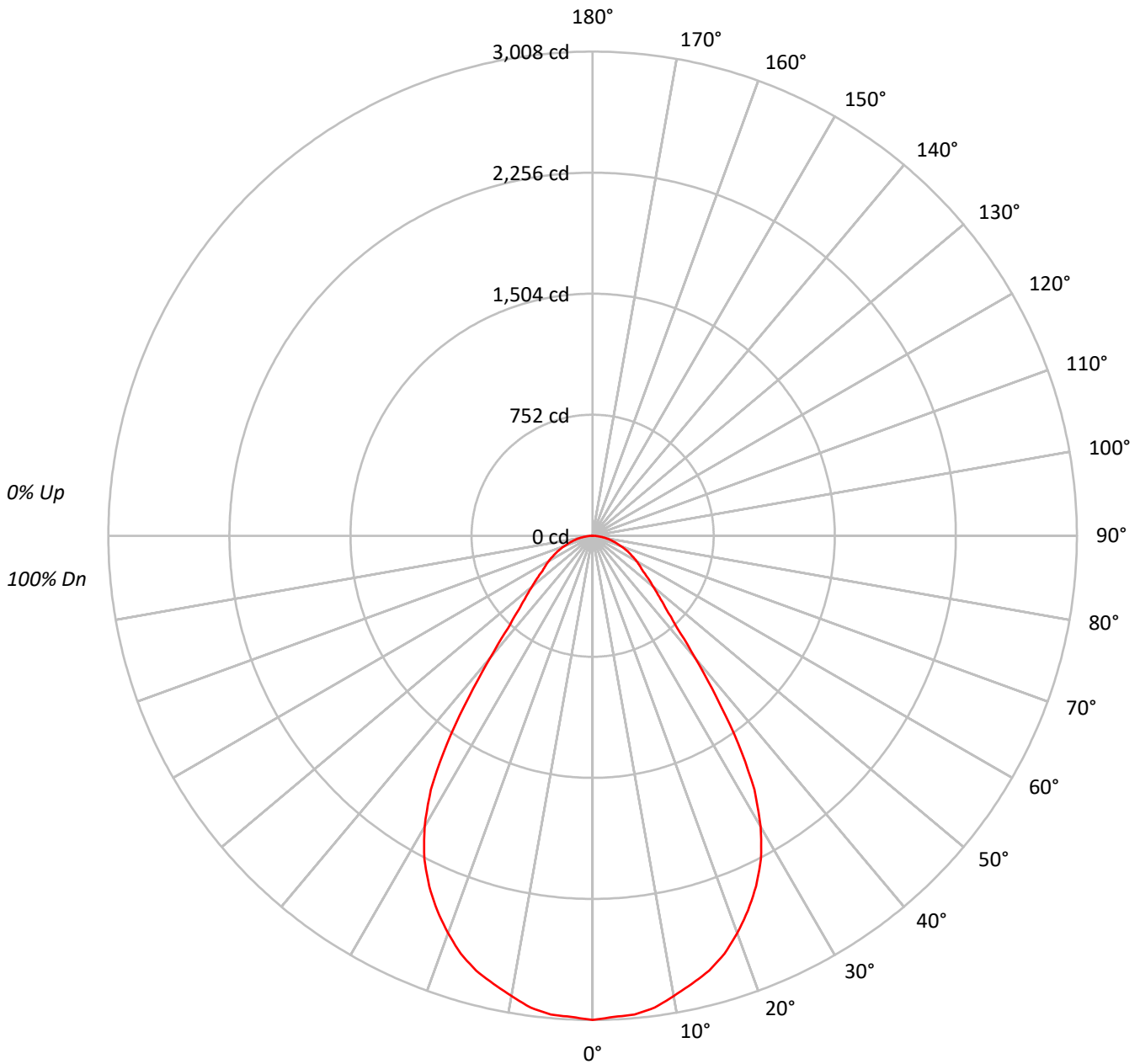
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	164905
5°	164302
10°	161559
15°	158713
20°	153226
25°	145291
30°	132160
35°	105591
40°	70453
45°	50222
50°	41849
55°	36472
60°	34460
65°	32442
70°	29813
75°	27832
80°	25319
85°	22203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	6.4
10°-20°	785.2	17.7
20°-30°	1097.2	24.8
30°-40°	966.5	21.8
40°-50°	522.2	11.8
50°-60°	349.2	7.9
60°-70°	247.5	5.6
70°-80°	139.1	3.1
80°-90°	40.6	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°	2164.8	48.9
0°-40°	3131.4	70.7
0°-60°	4002.7	90.4
0°-90°	4429.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4429.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3008	
5°	2986	282
15°	2796	785
25°	2402	1097
35°	1578	967
45°	648	522
55°	382	349
65°	250	248
75°	131	139
85°	35	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3008.1
2.5°	2992.1
5°	2985.7
7.5°	2956.9
10°	2902.3
12.5°	2850.9
15°	2796.5
17.5°	2722.7
20°	2626.5
22.5°	2520.7
25°	2402.0
27.5°	2264.1
30°	2087.8
32.5°	1869.6
35°	1577.8
37.5°	1260.4
40°	984.5
42.5°	776.0
45°	647.8
47.5°	561.2
50°	490.7
52.5°	433.0
55°	381.6
57.5°	346.4
60°	314.3
62.5°	282.3
65°	250.1
67.5°	218.1
70°	186.0
72.5°	157.2
75°	131.4
77.5°	105.8
80°	80.2
82.5°	57.8
85°	35.3
87.5°	16.1
90°	0.0



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— 0°-180°







(END OF REPORT)