

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: P582805

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582805
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: HC650D010-HM64560930-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4683.3 lumens
Efficiency: N/A
Efficacy: 97.6 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

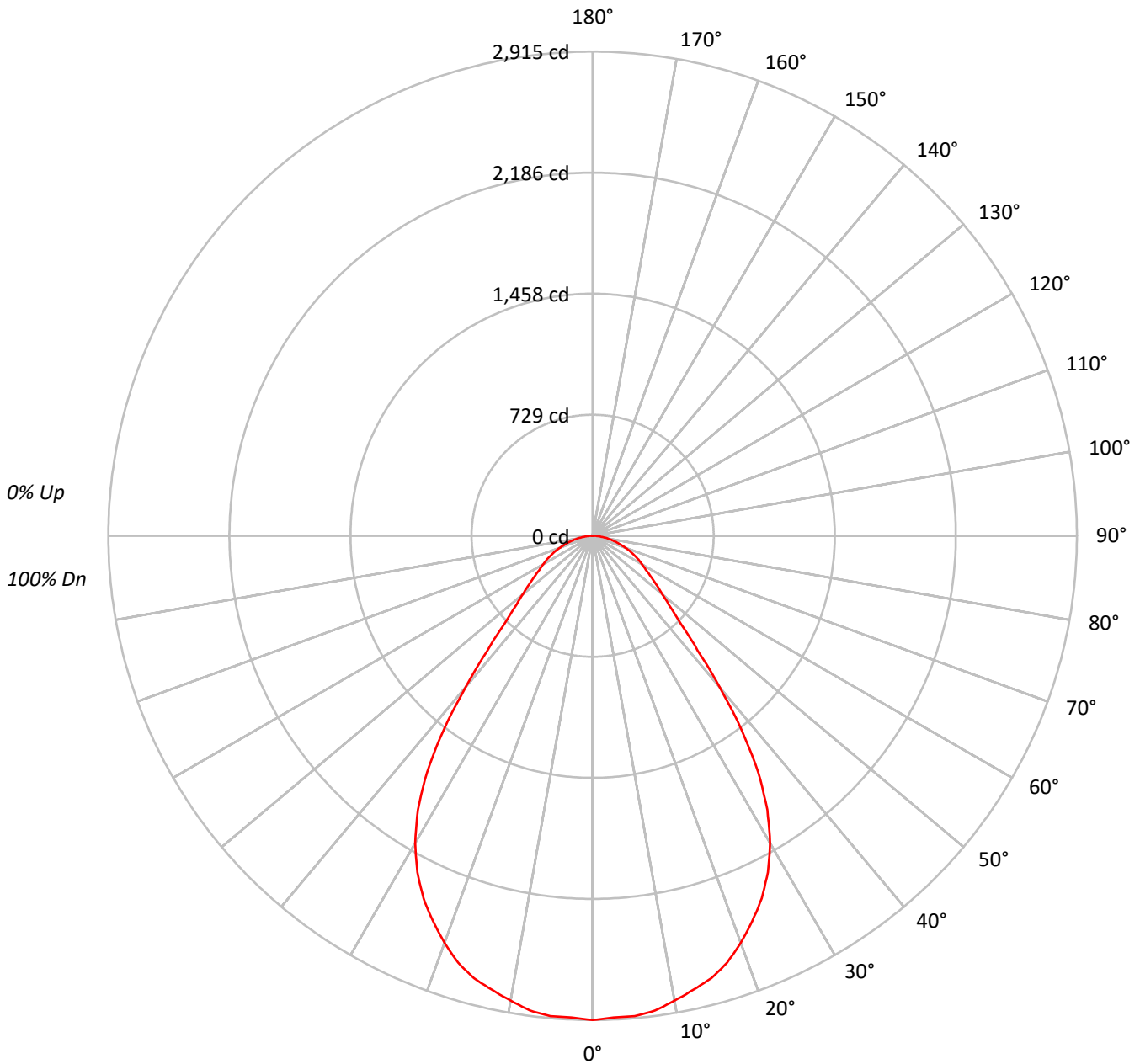
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	159817
5°	159718
10°	158175
15°	156533
20°	152112
25°	145684
30°	135211
35°	116332
40°	84923
45°	58184
50°	46779
55°	40773
60°	37629
65°	35776
70°	33403
75°	31242
80°	28350
85°	24216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	5.9
10°-20°	774.6	16.5
20°-30°	1101.7	23.5
30°-40°	1060.6	22.6
40°-50°	610.3	13.0
50°-60°	386.7	8.3
60°-70°	273.7	5.8
70°-80°	156.0	3.3
80°-90°	44.5	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°	2151.4	45.9
0°-40°	3212.1	68.6
0°-60°	4209.0	89.9
0°-90°	4683.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4683.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2915	
5°	2902	275
15°	2758	775
25°	2408	1102
35°	1738	1061
45°	750	610
55°	427	387
65°	276	274
75°	148	156
85°	38	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2915.3
2.5°	2902.4
5°	2902.4
7.5°	2883.2
10°	2841.5
12.5°	2799.8
15°	2758.1
17.5°	2694.0
20°	2607.4
22.5°	2511.2
25°	2408.5
27.5°	2283.5
30°	2136.0
32.5°	1956.3
35°	1738.3
37.5°	1472.1
40°	1186.7
42.5°	936.5
45°	750.5
47.5°	631.8
50°	548.5
52.5°	481.0
55°	426.6
57.5°	378.4
60°	343.2
62.5°	311.1
65°	275.8
67.5°	243.8
70°	208.4
72.5°	176.4
75°	147.5
77.5°	118.7
80°	89.8
82.5°	64.1
85°	38.5
87.5°	16.1
90°	0.0



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— 0°-180°







(END OF REPORT)