

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: P582642

Luminaire Tested: **HC645D010-HM64560927-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560927-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3752.3 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

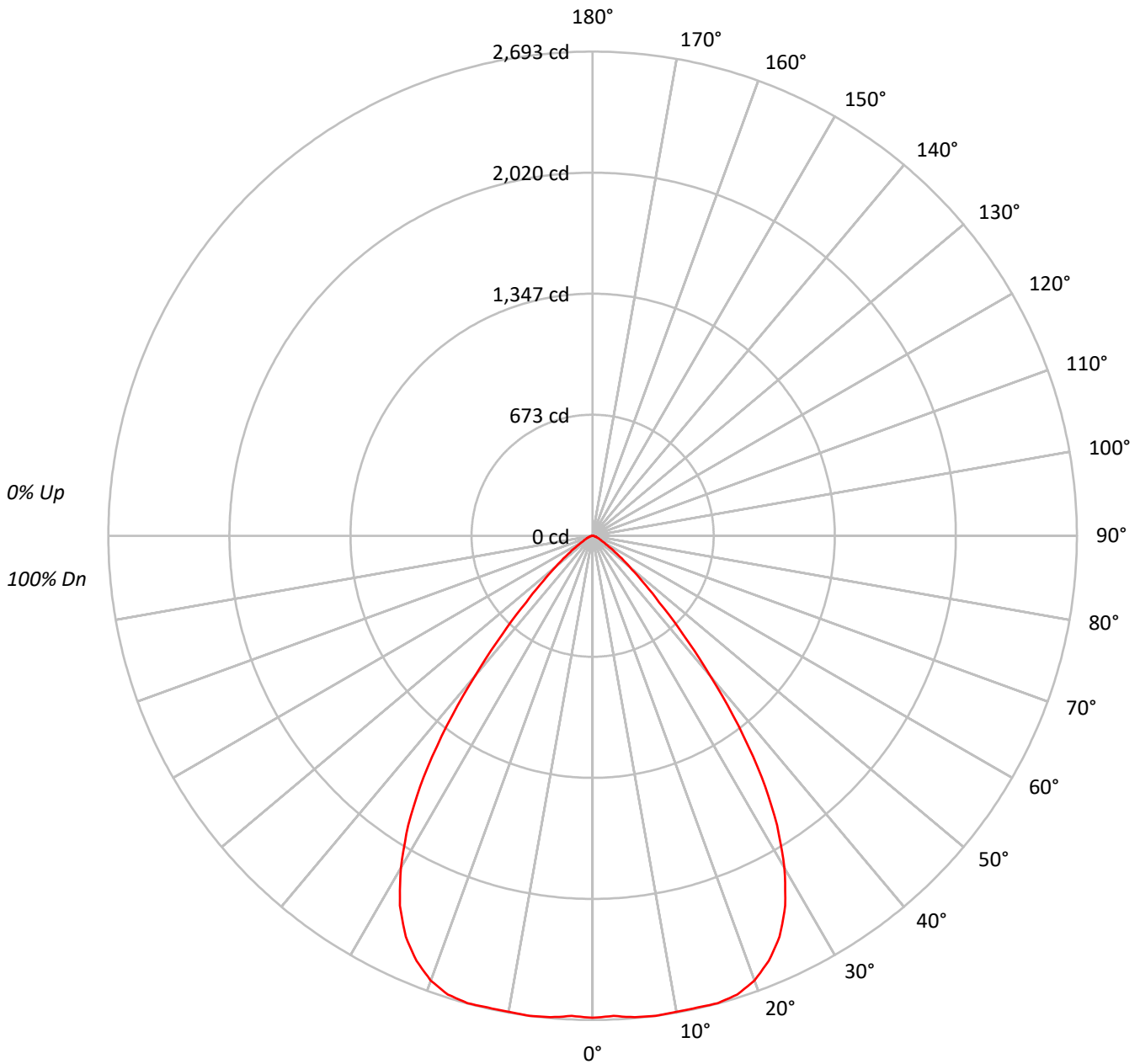
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77			77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70			70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59			59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	146956
5°	147936
10°	149647
15°	152719
20°	153570
25°	148787
30°	134983
35°	109747
40°	72844
45°	40539
50°	22728
55°	12616
60°	6962
65°	5266
70°	3670
75°	2690
80°	1578
85°	1635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	6.8
10°-20°	758.7	20.2
20°-30°	1118.3	29.8
30°-40°	1000.2	26.7
40°-50°	433.9	11.6
50°-60°	127.5	3.4
60°-70°	40.7	1.1
70°-80°	14.4	0.4
80°-90°	2.1	0.1
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°	2133.6	56.9
0°-40°	3133.8	83.5
0°-60°	3695.2	98.5
0°-90°	3752.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3752.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2681	
5°	2688	257
15°	2691	759
25°	2460	1118
35°	1640	1000
45°	523	434
55°	132	127
65°	41	41
75°	13	14
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2680.7
2.5°	2673.0
5°	2688.3
7.5°	2693.3
10°	2688.3
12.5°	2688.3
15°	2690.9
17.5°	2675.6
20°	2632.4
22.5°	2558.8
25°	2459.8
27.5°	2320.2
30°	2132.4
32.5°	1908.9
35°	1639.9
37.5°	1332.8
40°	1017.9
42.5°	743.8
45°	522.9
47.5°	373.1
50°	266.5
52.5°	190.4
55°	132.0
57.5°	88.8
60°	63.5
62.5°	50.8
65°	40.6
67.5°	30.5
70°	22.9
72.5°	17.7
75°	12.7
77.5°	10.2
80°	5.0
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)