

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: P582672

Luminaire Tested: **HC645D010-HM64560935-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560935-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4173.7 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

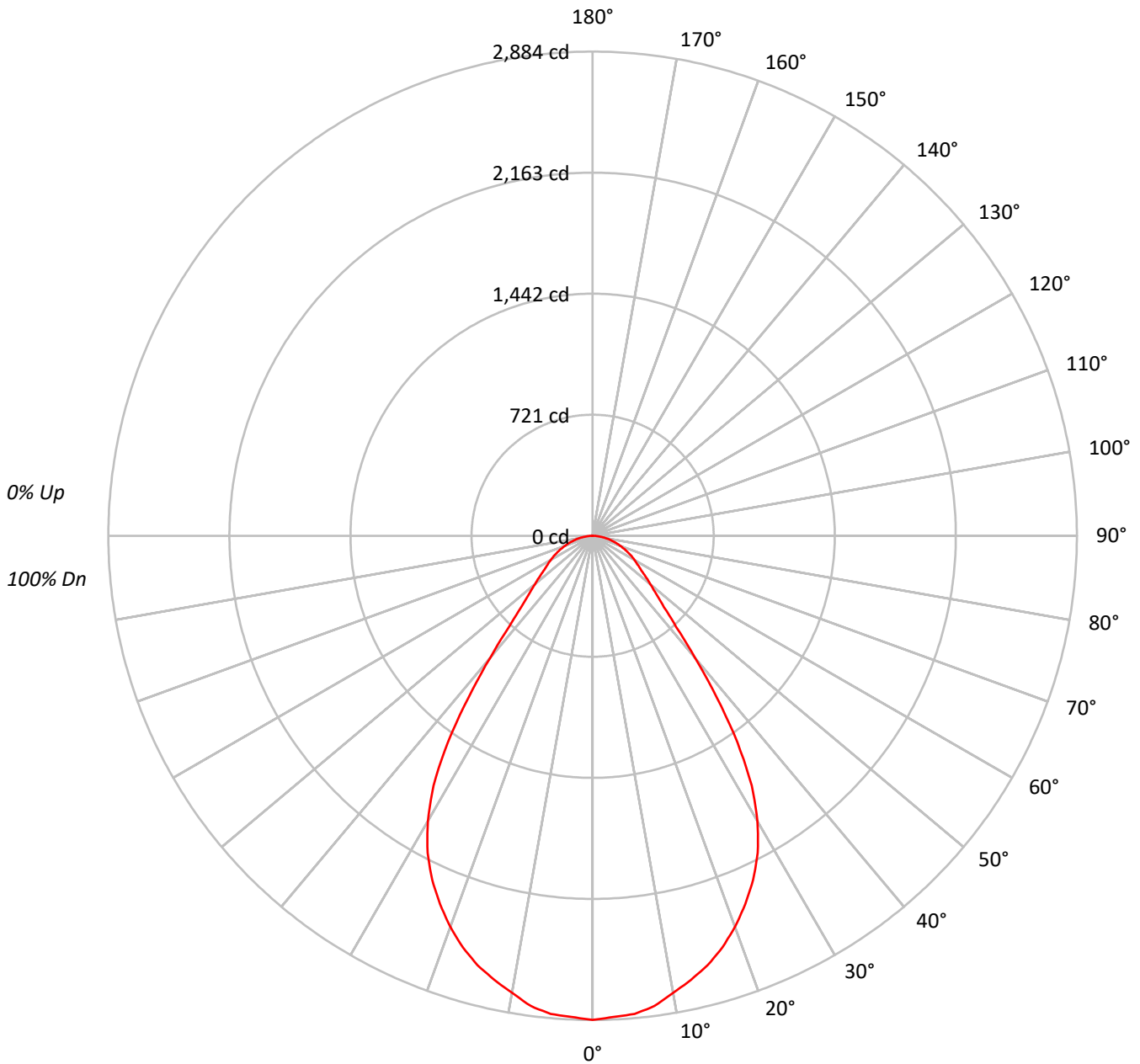
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	158079
5°	157335
10°	153855
15°	150256
20°	144603
25°	136750
30°	124285
35°	100599
40°	67834
45°	46617
50°	38199
55°	33423
60°	31609
65°	29835
70°	28034
75°	26624
80°	24214
85°	21260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	6.5
10°-20°	743.5	17.8
20°-30°	1032.9	24.7
30°-40°	919.7	22.0
40°-50°	488.2	11.7
50°-60°	319.3	7.6
60°-70°	228.8	5.5
70°-80°	132.7	3.2
80°-90°	38.8	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°	2046.3	49.0
0°-40°	2965.9	71.1
0°-60°	3773.4	90.4
0°-90°	4173.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4173.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2884	
5°	2859	270
15°	2648	743
25°	2261	1033
35°	1503	920
45°	601	488
55°	350	319
65°	230	229
75°	126	133
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2883.6
2.5°	2868.3
5°	2859.1
7.5°	2825.3
10°	2763.9
12.5°	2708.8
15°	2647.5
17.5°	2570.7
20°	2478.7
22.5°	2374.4
25°	2260.8
27.5°	2129.0
30°	1963.4
32.5°	1764.0
35°	1503.2
37.5°	1214.8
40°	947.9
42.5°	736.3
45°	601.3
47.5°	512.2
50°	447.9
52.5°	395.8
55°	349.7
57.5°	316.0
60°	288.3
62.5°	260.8
65°	230.0
67.5°	202.5
70°	174.9
72.5°	150.3
75°	125.7
77.5°	101.2
80°	76.7
82.5°	55.2
85°	33.8
87.5°	15.4
90°	0.0



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— 0°-180°







(END OF REPORT)