

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: P582651

Luminaire Tested: **HC645D010-HM64560930-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582651
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: HC645D010-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: 4185.8 lumens
Efficiency: N/A
Efficacy: 95.1 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

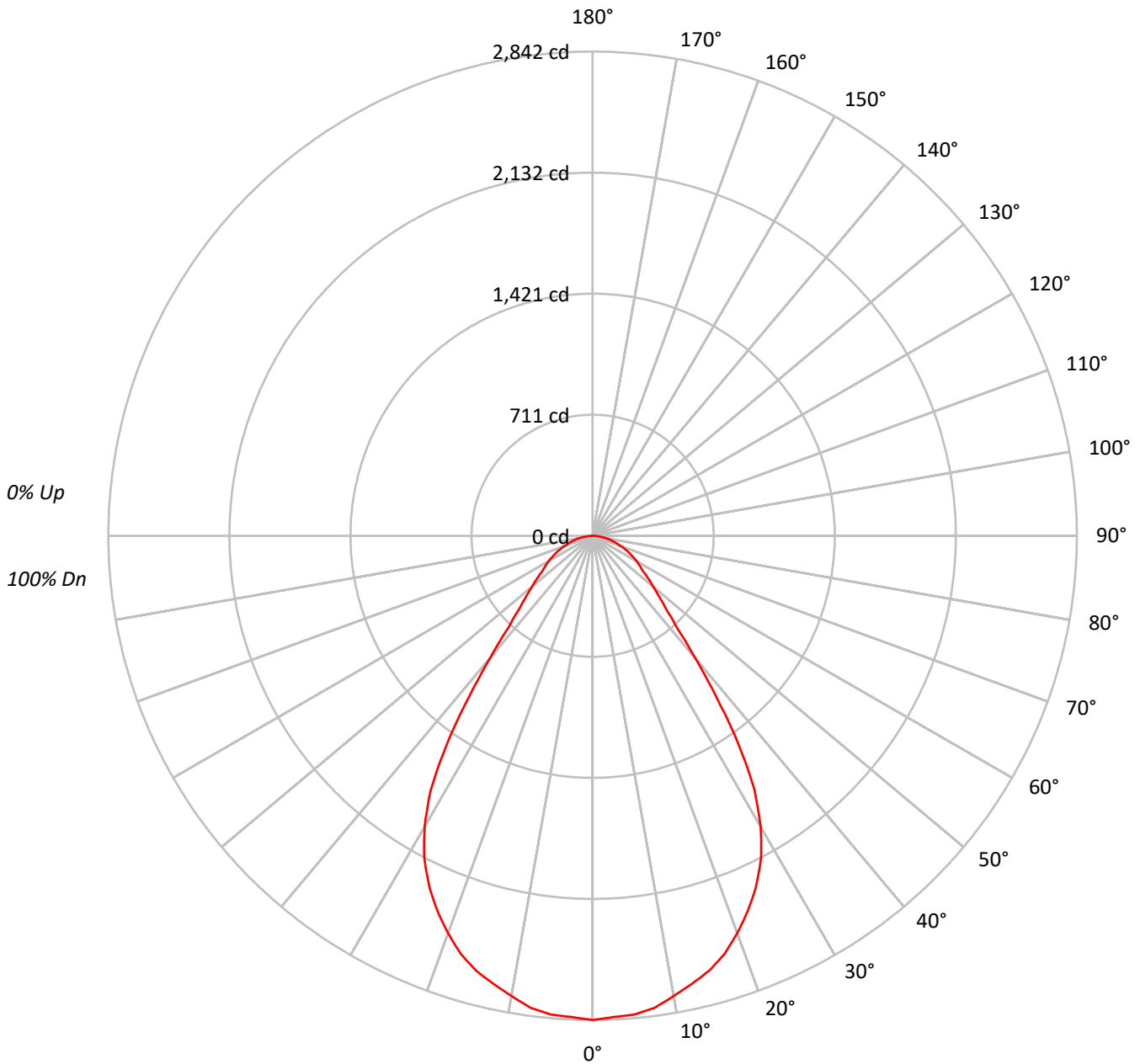
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	155821
5°	155249
10°	152658
15°	149967
20°	144784
25°	137282
30°	124880
35°	99776
40°	66575
45°	47455
50°	39547
55°	34465
60°	32563
65°	30665
70°	28162
75°	26307
80°	23930
85°	20945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	6.4
10°-20°	741.9	17.7
20°-30°	1036.8	24.8
30°-40°	913.3	21.8
40°-50°	493.4	11.8
50°-60°	329.9	7.9
60°-70°	233.9	5.6
70°-80°	131.5	3.1
80°-90°	38.3	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°	2045.5	48.9
0°-40°	2958.8	70.7
0°-60°	3782.2	90.4
0°-90°	4185.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4185.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2842	
5°	2821	267
15°	2642	742
25°	2270	1037
35°	1491	913
45°	612	493
55°	361	330
65°	236	234
75°	124	131
85°	33	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2842.4
2.5°	2827.3
5°	2821.2
7.5°	2794.0
10°	2742.4
12.5°	2693.9
15°	2642.4
17.5°	2572.7
20°	2481.8
22.5°	2381.8
25°	2269.6
27.5°	2139.3
30°	1972.8
32.5°	1766.7
35°	1490.9
37.5°	1190.9
40°	930.3
42.5°	733.4
45°	612.1
47.5°	530.3
50°	463.7
52.5°	409.1
55°	360.6
57.5°	327.3
60°	297.0
62.5°	266.6
65°	236.4
67.5°	206.1
70°	175.7
72.5°	148.5
75°	124.2
77.5°	100.1
80°	75.8
82.5°	54.5
85°	33.3
87.5°	15.1
90°	0.0



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— 0°-180°







(END OF REPORT)