

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: P582661

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582661
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: HC645D010-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: 4425.2 lumens
Efficiency: N/A
Efficacy: 100.6 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

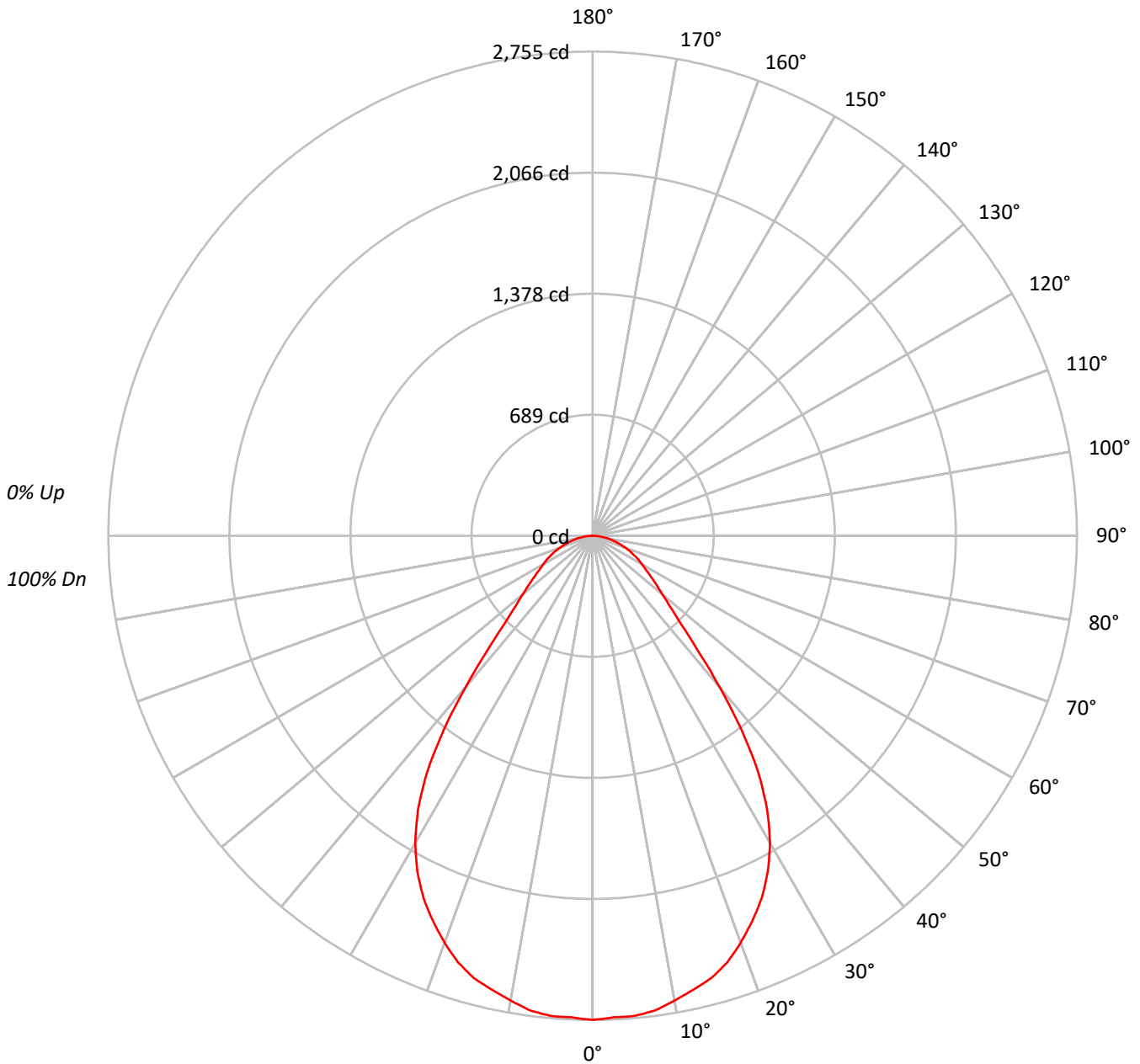
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	62	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°	151013
5°	150924
10°	149463
15°	147912
20°	143734
25°	137663
30°	127760
35°	109928
40°	80243
45°	54975
50°	44195
55°	38517
60°	35545
65°	33804
70°	31560
75°	29526
80°	26771
85°	22895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.0	5.9
10°-20°	731.9	16.5
20°-30°	1041.0	23.5
30°-40°	1002.2	22.6
40°-50°	576.7	13.0
50°-60°	365.3	8.3
60°-70°	258.6	5.8
70°-80°	147.4	3.3
80°-90°	42.0	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°	2032.9	45.9
0°-40°	3035.1	68.6
0°-60°	3977.1	89.9
0°-90°	4425.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4425.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2755	
5°	2743	260
15°	2606	732
25°	2276	1041
35°	1643	1002
45°	709	577
55°	403	365
65°	261	259
75°	139	147
85°	36	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2754.7
2.5°	2742.6
5°	2742.6
7.5°	2724.4
10°	2685.0
12.5°	2645.6
15°	2606.2
17.5°	2545.5
20°	2463.8
22.5°	2372.9
25°	2275.9
27.5°	2157.7
30°	2018.3
32.5°	1848.5
35°	1642.6
37.5°	1390.9
40°	1121.3
42.5°	884.9
45°	709.1
47.5°	597.1
50°	518.2
52.5°	454.5
55°	403.0
57.5°	357.6
60°	324.2
62.5°	294.0
65°	260.6
67.5°	230.3
70°	196.9
72.5°	166.7
75°	139.4
77.5°	112.1
80°	84.8
82.5°	60.6
85°	36.4
87.5°	15.1
90°	0.0



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— 0°-180°







(END OF REPORT)