

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: P582600

Luminaire Tested: **HC645D010-HM64560835-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582600
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-HM64560835-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4685.8 lumens
Efficiency: N/A
Efficacy: 106.5 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

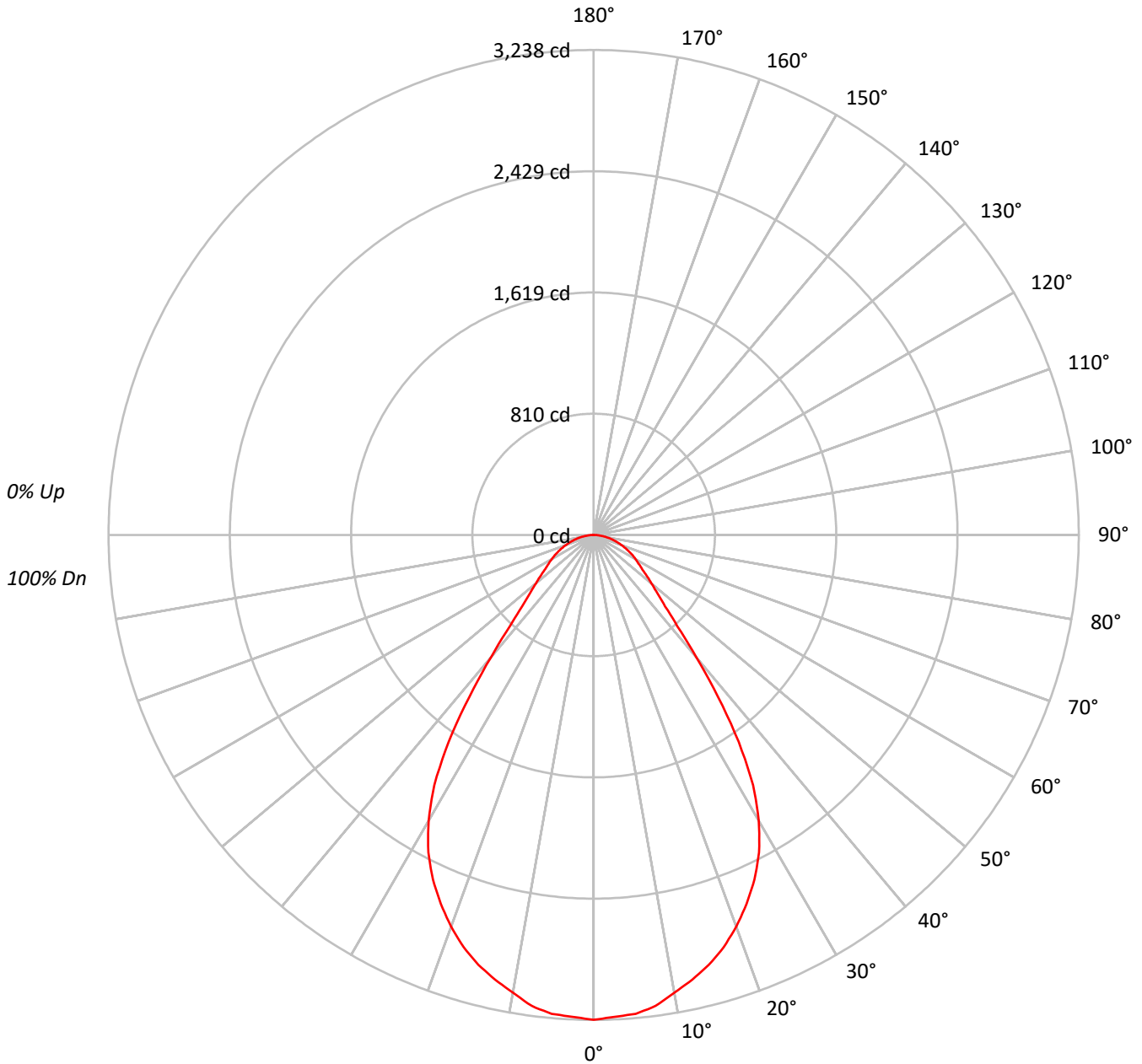
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	177480
5°	176639
10°	172742
15°	168690
20°	162344
25°	153535
30°	139528
35°	112939
40°	76164
45°	52339
50°	42890
55°	37523
60°	35491
65°	33506
70°	31480
75°	29907
80°	27181
85°	23839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.0	6.5
10°-20°	834.7	17.8
20°-30°	1159.6	24.7
30°-40°	1032.5	22.0
40°-50°	548.1	11.7
50°-60°	358.4	7.6
60°-70°	256.9	5.5
70°-80°	149.0	3.2
80°-90°	43.6	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°	2297.4	49.0
0°-40°	3329.9	71.1
0°-60°	4236.4	90.4
0°-90°	4685.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3238	
5°	3210	303
15°	2972	835
25°	2538	1160
35°	1688	1033
45°	675	548
55°	393	358
65°	258	257
75°	141	149
85°	38	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3237.5
2.5°	3220.2
5°	3209.9
7.5°	3172.0
10°	3103.2
12.5°	3041.1
15°	2972.3
17.5°	2886.2
20°	2782.8
22.5°	2665.8
25°	2538.3
27.5°	2390.2
30°	2204.2
32.5°	1980.4
35°	1687.6
37.5°	1363.8
40°	1064.3
42.5°	826.6
45°	675.1
47.5°	575.1
50°	502.9
52.5°	444.3
55°	392.6
57.5°	354.7
60°	323.7
62.5°	292.8
65°	258.3
67.5°	227.3
70°	196.4
72.5°	168.8
75°	141.2
77.5°	113.7
80°	86.1
82.5°	62.1
85°	37.9
87.5°	17.2
90°	0.0



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— 0°-180°







(END OF REPORT)