

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: P584611

Luminaire Tested: **HC840D010-HM82555935-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4422.8 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

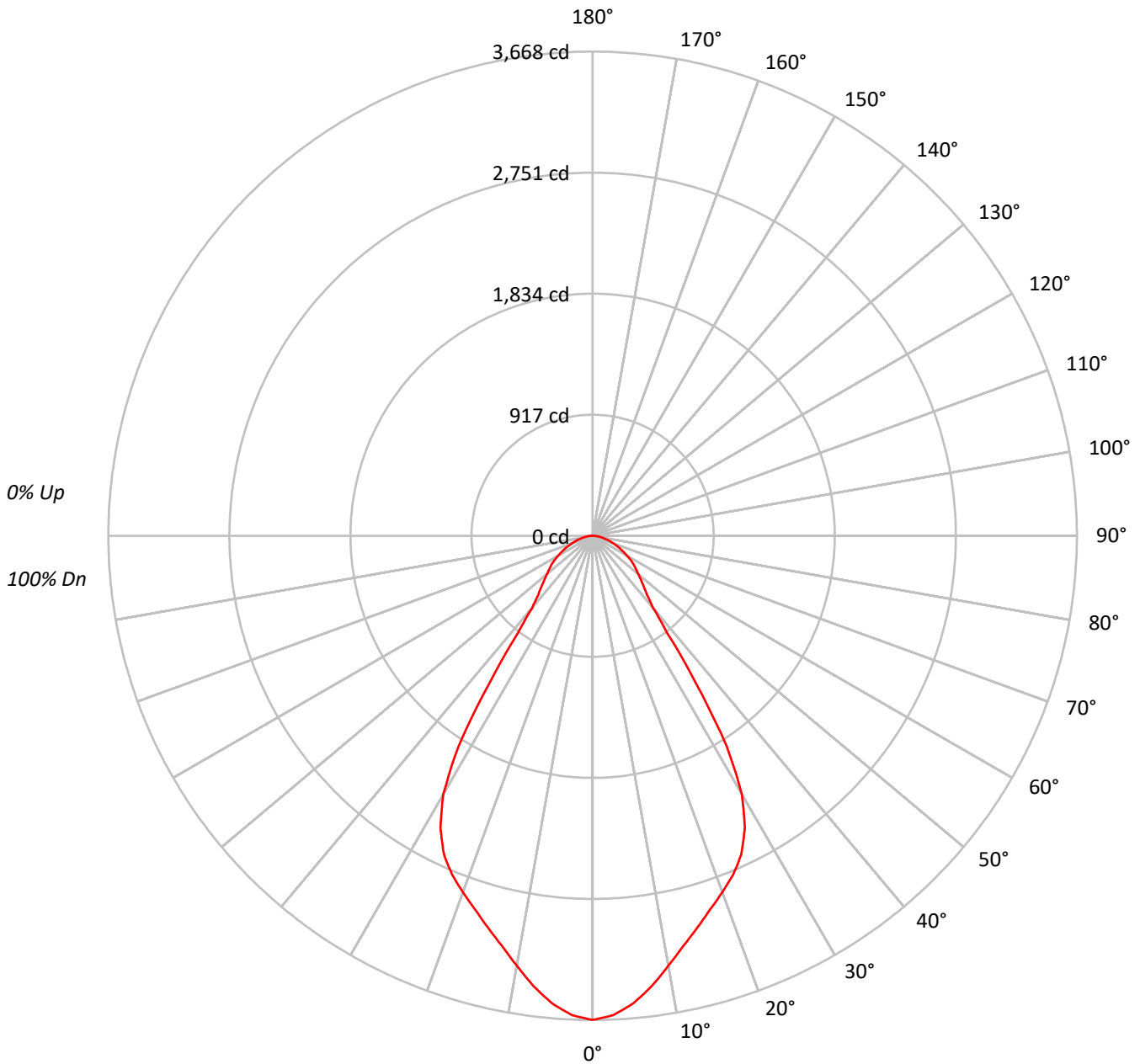
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113092
5°	110008
10°	103521
15°	98010
20°	94278
25°	90637
30°	80500
35°	51264
40°	28613
45°	23963
50°	21636
55°	20392
60°	18607
65°	16775
70°	14804
75°	13177
80°	11667
85°	10579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.3	7.5
10°-20°	865.8	19.6
20°-30°	1207.9	27.3
30°-40°	869.2	19.7
40°-50°	430.8	9.7
50°-60°	337.0	7.6
60°-70°	228.2	5.2
70°-80°	118.5	2.7
80°-90°	34.1	0.8
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°	2405.1	54.4
0°-40°	3274.2	74.0
0°-60°	4042.0	91.4
0°-90°	4422.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4422.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3668	
5°	3554	331
15°	3070	866
25°	2664	1208
35°	1362	869
45°	550	431
55°	379	337
65°	230	228
75°	111	118
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3667.5
2.5°	3634.6
5°	3553.9
7.5°	3440.4
10°	3306.1
12.5°	3180.6
15°	3070.1
17.5°	2965.6
20°	2873.0
22.5°	2780.4
25°	2663.9
27.5°	2496.7
30°	2260.8
32.5°	1890.4
35°	1361.8
37.5°	928.8
40°	710.8
42.5°	612.3
45°	549.5
47.5°	495.8
50°	451.0
52.5°	412.1
55°	379.3
57.5°	340.5
60°	301.7
62.5°	262.9
65°	229.9
67.5°	197.1
70°	164.2
72.5°	137.3
75°	110.6
77.5°	86.6
80°	65.7
82.5°	47.8
85°	29.9
87.5°	14.9
90°	0.0



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— 0°-180°







(END OF REPORT)