

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: P593806

Luminaire Tested: **HC850D010-HM82555950-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555950-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6095.9 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

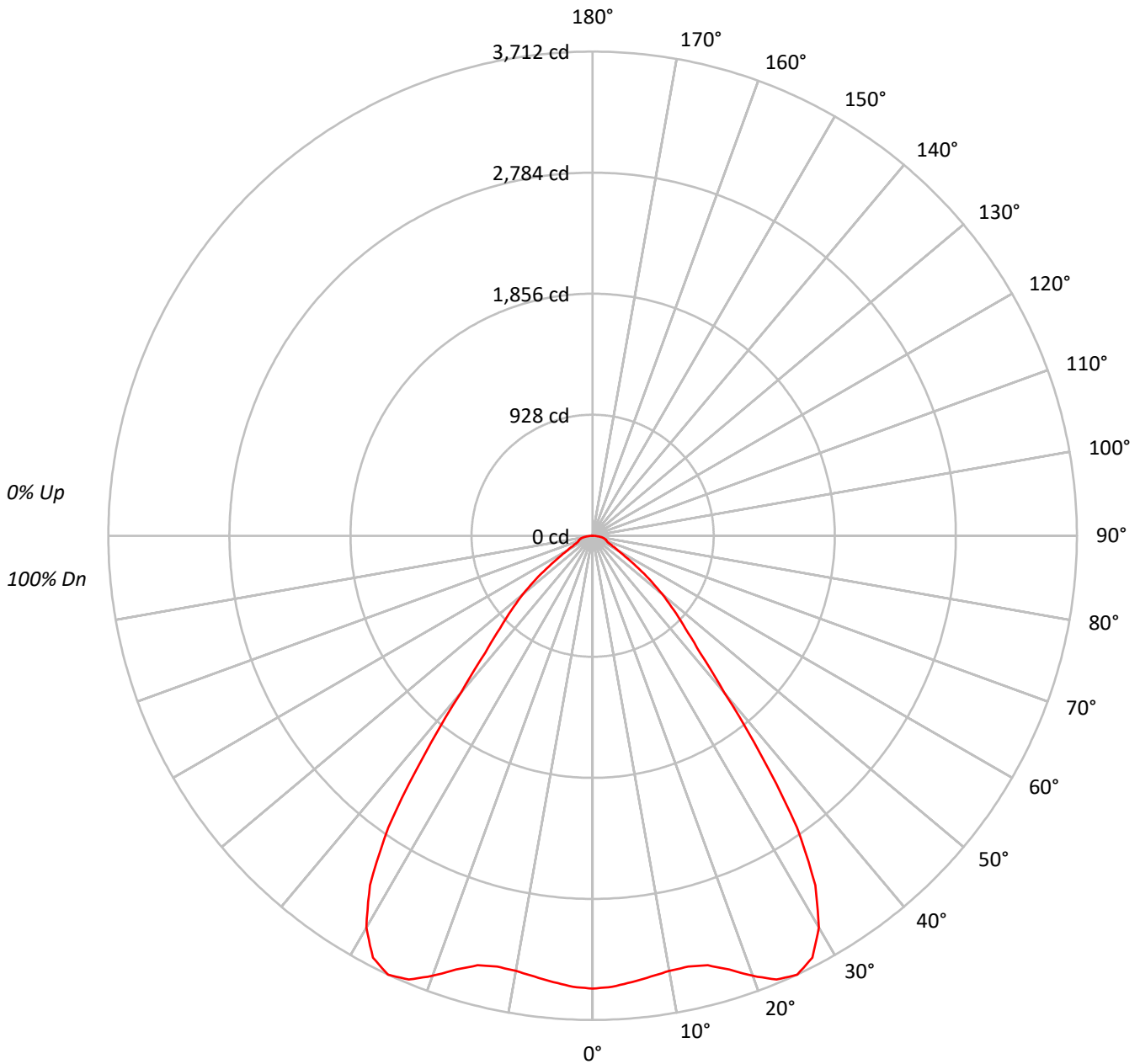
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107058
5°	106324
10°	106044
15°	108826
20°	117817
25°	126311
30°	123491
35°	102829
40°	63175
45°	43744
50°	33384
55°	21892
60°	13697
65°	10259
70°	10350
75°	11902
80°	13141
85°	11782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	5.4
10°-20°	978.6	16.1
20°-30°	1684.7	27.6
30°-40°	1632.2	26.8
40°-50°	803.9	13.2
50°-60°	379.4	6.2
60°-70°	149.5	2.5
70°-80°	103.1	1.7
80°-90°	38.2	0.6
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°	2989.6	49.0
0°-40°	4621.8	75.8
0°-60°	5805.1	95.2
0°-90°	6095.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6095.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3472	
5°	3435	326
15°	3409	979
25°	3712	1685
35°	2732	1632
45°	1003	804
55°	407	379
65°	141	149
75°	100	103
85°	33	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3471.8
2.5°	3460.7
5°	3434.9
7.5°	3408.9
10°	3386.7
12.5°	3383.0
15°	3408.9
17.5°	3486.7
20°	3590.3
22.5°	3682.8
25°	3712.4
27.5°	3645.9
30°	3468.2
32.5°	3175.7
35°	2731.6
37.5°	2120.9
40°	1569.4
42.5°	1217.7
45°	1003.1
47.5°	843.9
50°	695.9
52.5°	547.8
55°	407.2
57.5°	296.1
60°	222.1
62.5°	173.9
65°	140.6
67.5°	122.2
70°	114.8
72.5°	107.3
75°	99.9
77.5°	88.8
80°	74.0
82.5°	55.5
85°	33.3
87.5°	14.8
90°	0.0



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— 0°-180°







(END OF REPORT)