

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: P593816

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555950-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5685.1 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

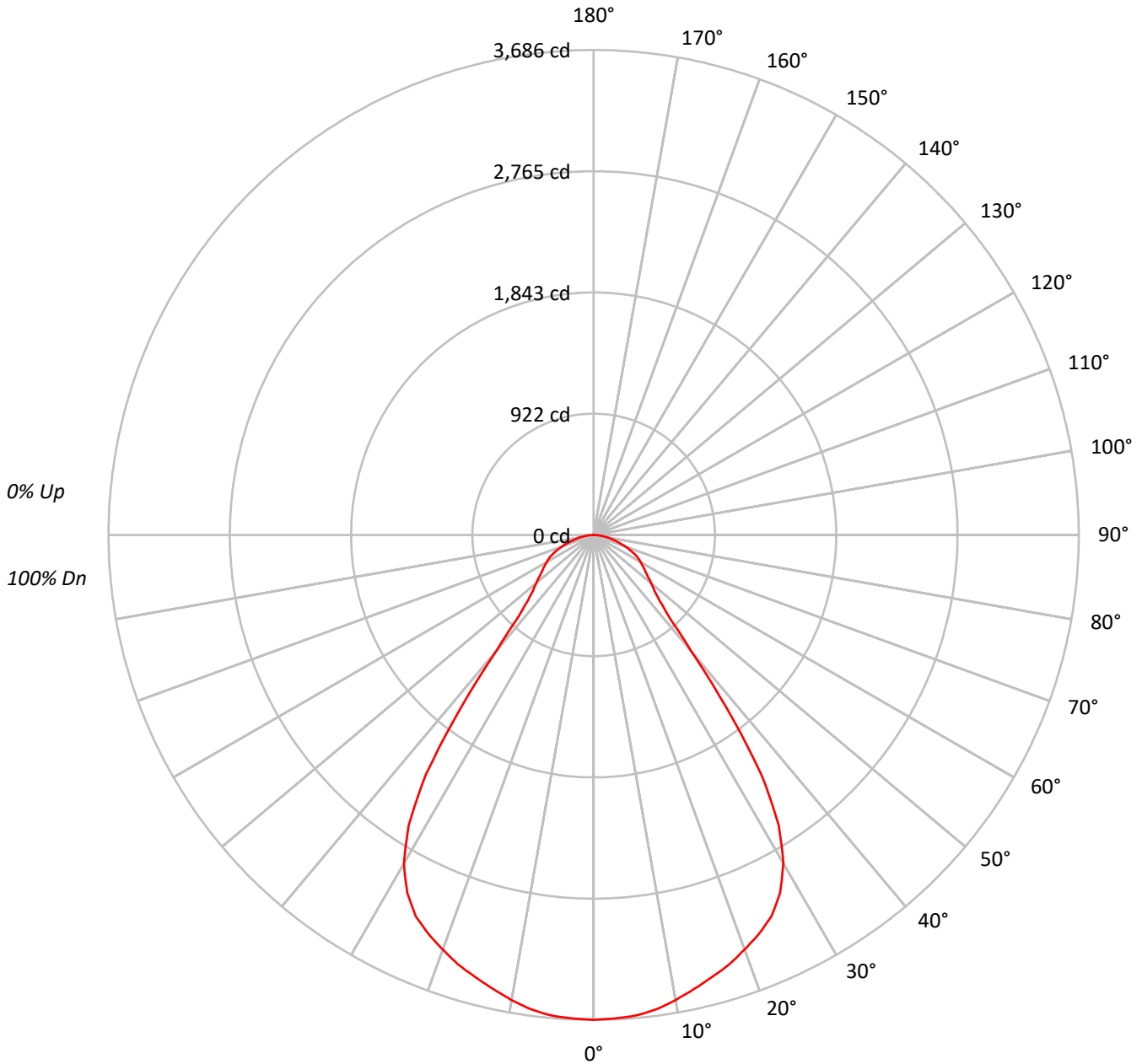
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	56	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°	113660
5°	113521
10°	112398
15°	111051
20°	110023
25°	108785
30°	102647
35°	83585
40°	46183
45°	30823
50°	27340
55°	25666
60°	25335
65°	25115
70°	22693
75°	20278
80°	17740
85°	15709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	6.1
10°-20°	982.2	17.3
20°-30°	1459.4	25.7
30°-40°	1314.3	23.1
40°-50°	582.7	10.2
50°-60°	431.5	7.6
60°-70°	335.6	5.9
70°-80°	181.9	3.2
80°-90°	49.8	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°	2789.2	49.1
0°-40°	4103.6	72.2
0°-60°	5117.8	90.0
0°-90°	5685.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5685.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3686	
5°	3667	348
15°	3479	982
25°	3197	1459
35°	2220	1314
45°	707	583
55°	477	432
65°	344	336
75°	170	182
85°	44	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3685.9
2.5°	3678.5
5°	3667.4
7.5°	3637.7
10°	3589.6
12.5°	3534.1
15°	3478.6
17.5°	3423.1
20°	3352.8
22.5°	3282.4
25°	3197.3
27.5°	3067.8
30°	2882.8
32.5°	2616.3
35°	2220.4
37.5°	1657.9
40°	1147.3
42.5°	847.4
45°	706.8
47.5°	625.4
50°	569.9
52.5°	518.1
55°	477.4
57.5°	444.1
60°	410.8
62.5°	381.2
65°	344.2
67.5°	299.7
70°	251.7
72.5°	210.9
75°	170.2
77.5°	133.3
80°	99.9
82.5°	70.3
85°	44.4
87.5°	18.5
90°	0.0



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— 0°-180°







(END OF REPORT)