

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: P593731

Luminaire Tested: **HC850D010-HM82555850-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593731
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-HM82555850-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5327.3 lumens
Efficiency: N/A
Efficacy: 129.9 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

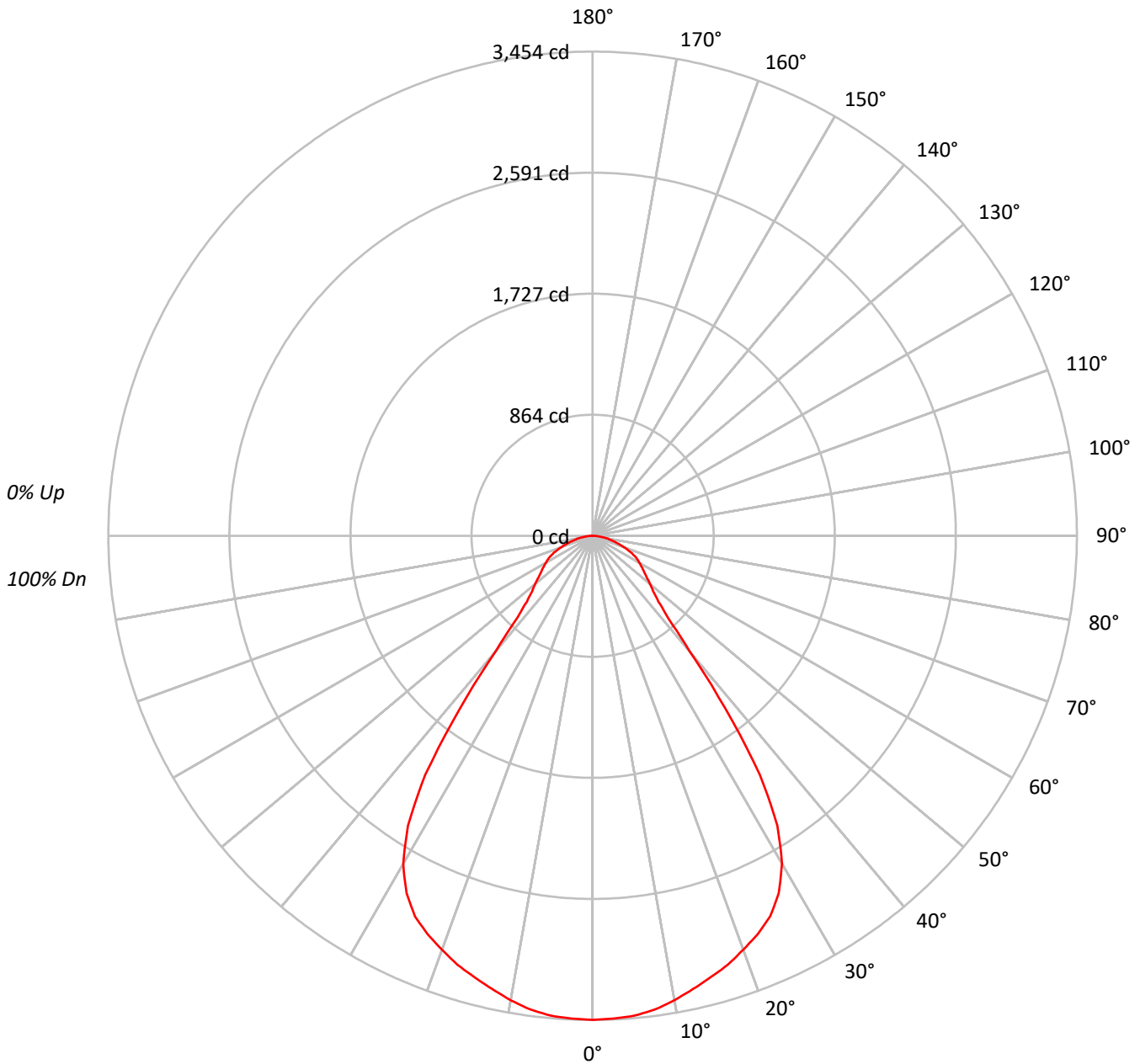
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	106506
5°	106374
10°	105324
15°	104060
20°	103096
25°	101940
30°	96184
35°	78322
40°	43273
45°	28887
50°	25622
55°	24048
60°	23744
65°	23531
70°	21269
75°	19003
80°	16639
85°	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	6.1
10°-20°	920.4	17.3
20°-30°	1367.6	25.7
30°-40°	1231.6	23.1
40°-50°	546.0	10.2
50°-60°	404.4	7.6
60°-70°	314.4	5.9
70°-80°	170.5	3.2
80°-90°	46.7	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°	2613.7	49.1
0°-40°	3845.3	72.2
0°-60°	4795.7	90.0
0°-90°	5327.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5327.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3454	
5°	3436	326
15°	3260	920
25°	2996	1368
35°	2081	1232
45°	662	546
55°	447	404
65°	322	314
75°	160	171
85°	42	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3453.9
2.5°	3447.0
5°	3436.5
7.5°	3408.8
10°	3363.7
12.5°	3311.7
15°	3259.6
17.5°	3207.6
20°	3141.7
22.5°	3075.9
25°	2996.1
27.5°	2874.7
30°	2701.3
32.5°	2451.6
35°	2080.6
37.5°	1553.5
40°	1075.0
42.5°	794.1
45°	662.4
47.5°	586.1
50°	534.1
52.5°	485.5
55°	447.3
57.5°	416.1
60°	385.0
62.5°	357.1
65°	322.5
67.5°	280.8
70°	235.9
72.5°	197.7
75°	159.5
77.5°	124.8
80°	93.7
82.5°	65.9
85°	41.6
87.5°	17.4
90°	0.0



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— 0°-180°







(END OF REPORT)