

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: P584417

Luminaire Tested: **HC835D010-HM82555835-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584417
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: HC835D010-HM82555835-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4245.2 lumens
Efficiency: N/A
Efficacy: 126.0 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

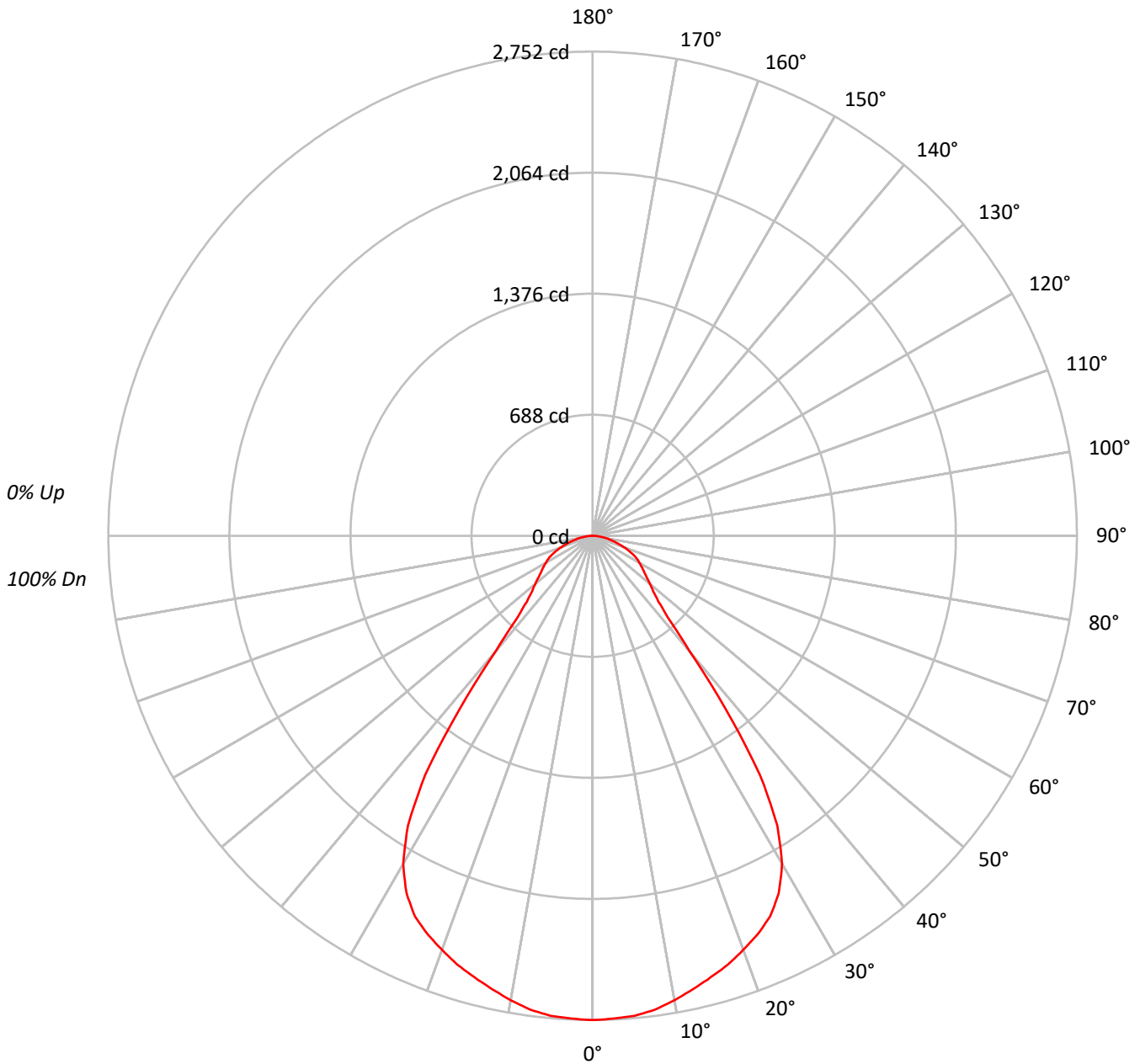
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	84874
5°	84768
10°	83932
15°	82926
20°	82160
25°	81236
30°	76651
35°	62414
40°	34486
45°	23017
50°	20412
55°	19166
60°	18915
65°	18752
70°	16950
75°	15143
80°	13247
85°	11746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.6	6.1
10°-20°	733.5	17.3
20°-30°	1089.8	25.7
30°-40°	981.5	23.1
40°-50°	435.1	10.2
50°-60°	322.2	7.6
60°-70°	250.6	5.9
70°-80°	135.8	3.2
80°-90°	37.2	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°	2082.9	49.1
0°-40°	3064.3	72.2
0°-60°	3821.6	90.0
0°-90°	4245.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2752	
5°	2738	260
15°	2598	733
25°	2388	1090
35°	1658	981
45°	528	435
55°	356	322
65°	257	251
75°	127	136
85°	33	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2752.4
2.5°	2746.9
5°	2738.5
7.5°	2716.5
10°	2680.5
12.5°	2639.1
15°	2597.6
17.5°	2556.2
20°	2503.7
22.5°	2451.1
25°	2387.6
27.5°	2290.9
30°	2152.7
32.5°	1953.7
35°	1658.0
37.5°	1238.0
40°	856.7
42.5°	632.8
45°	527.8
47.5°	467.0
50°	425.5
52.5°	386.8
55°	356.5
57.5°	331.6
60°	306.7
62.5°	284.6
65°	257.0
67.5°	223.8
70°	188.0
72.5°	157.5
75°	127.1
77.5°	99.4
80°	74.6
82.5°	52.5
85°	33.2
87.5°	13.8
90°	0.0



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— 0°-180°







(END OF REPORT)