

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: P593711

Luminaire Tested: **HC835D010-HM82555950-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593711
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: HC835D010-HM82555950-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4219.4 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

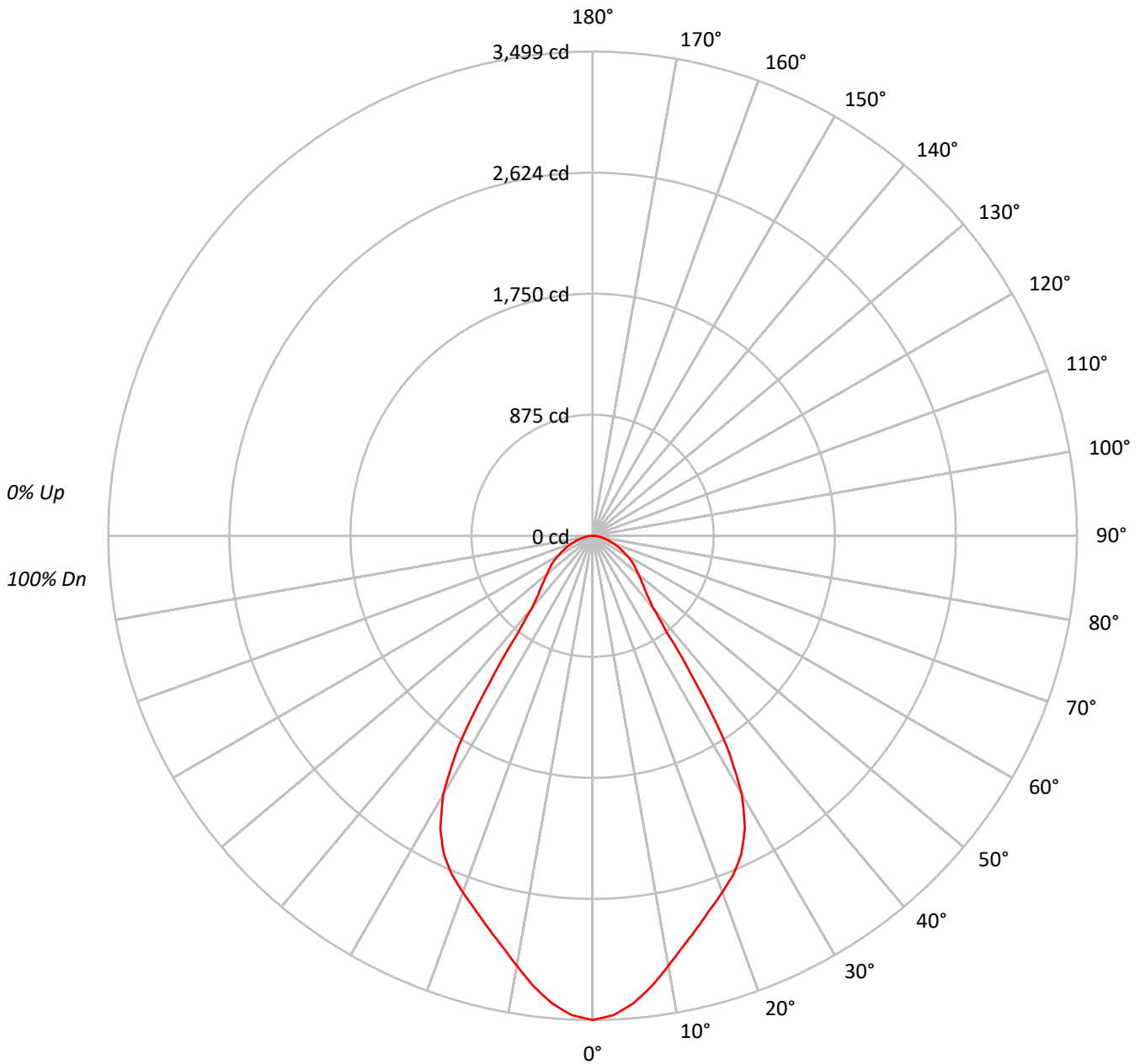
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593711

CATALOG NUMBER: HC835D010-HM82555950-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P593711

CATALOG NUMBER: HC835D010-HM82555950-81MDW

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	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°	107890
5°	104953
10°	98761
15°	93506
20°	89944
25°	86469
30°	76800
35°	48907
40°	27296
45°	22860
50°	20638
55°	19451
60°	17749
65°	16009
70°	14128
75°	12558
80°	11134
85°	10084



TEST NUMBER: P593711

CATALOG NUMBER: HC835D010-HM82555950-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.1	7.5
10°-20°	826.0	19.6
20°-30°	1152.4	27.3
30°-40°	829.2	19.7
40°-50°	410.9	9.7
50°-60°	321.5	7.6
60°-70°	217.7	5.2
70°-80°	113.1	2.7
80°-90°	32.6	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°	2294.5	54.4
0°-40°	3123.7	74.0
0°-60°	3856.1	91.4
0°-90°	4219.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4219.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3499	
5°	3391	316
15°	2929	826
25°	2541	1152
35°	1299	829
45°	524	411
55°	362	322
65°	219	218
75°	105	113
85°	28	33
90°	0	



TEST NUMBER: P593711

CATALOG NUMBER: HC835D010-HM82555950-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3498.8
2.5°	3467.5
5°	3390.6
7.5°	3282.3
10°	3154.1
12.5°	3034.4
15°	2929.0
17.5°	2829.2
20°	2740.9
22.5°	2652.6
25°	2541.4
27.5°	2382.0
30°	2156.9
32.5°	1803.6
35°	1299.2
37.5°	886.0
40°	678.1
42.5°	584.0
45°	524.2
47.5°	473.0
50°	430.2
52.5°	393.2
55°	361.8
57.5°	324.8
60°	287.8
62.5°	250.7
65°	219.4
67.5°	188.1
70°	156.7
72.5°	131.1
75°	105.4
77.5°	82.7
80°	62.7
82.5°	45.6
85°	28.5
87.5°	14.3
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)