

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: P593694

Luminaire Tested: **HC835D010-HM82555850-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593694
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-HM82555850-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4433.3 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

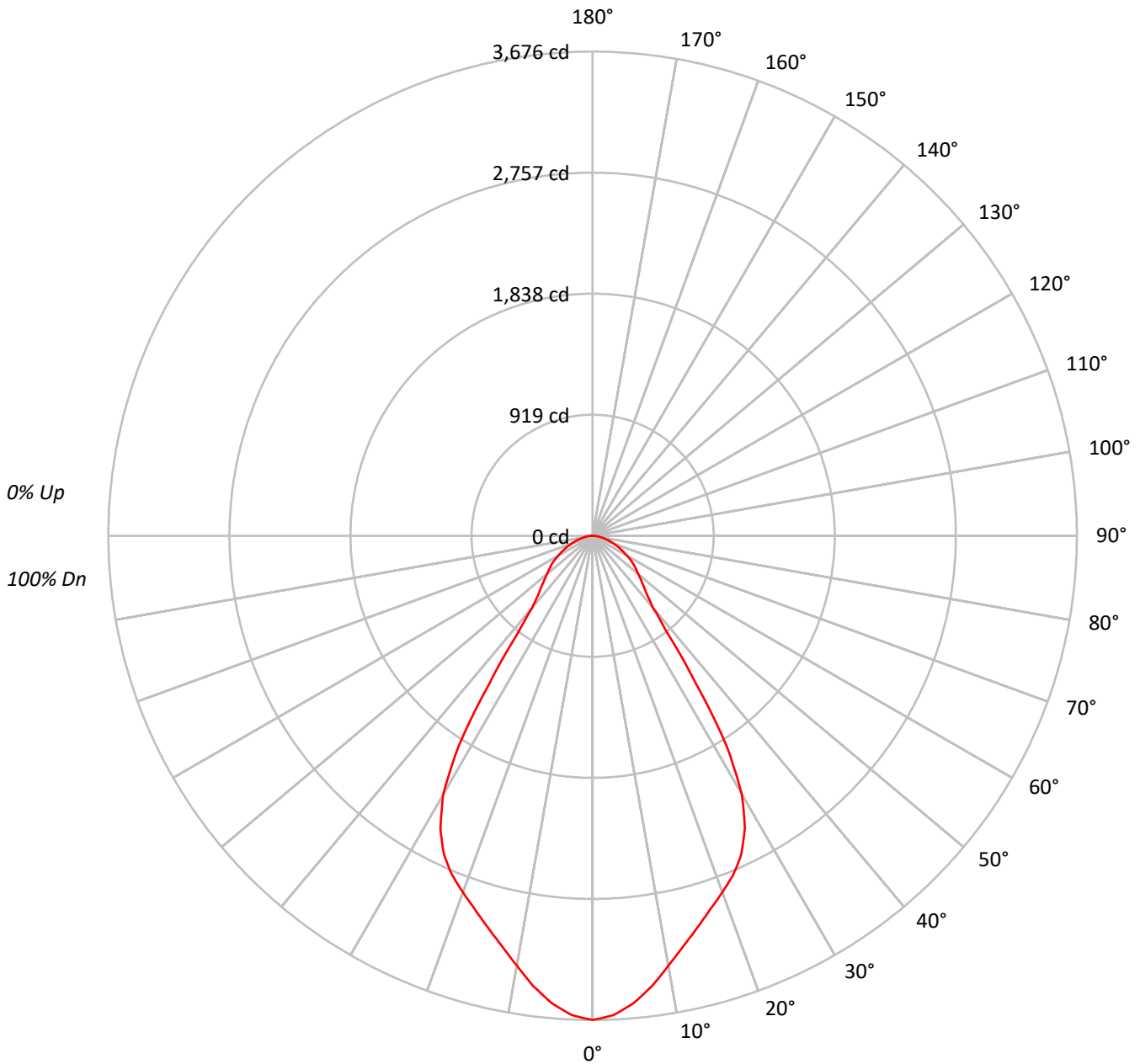
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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°	113360
5°	110271
10°	103765
15°	98243
20°	94505
25°	90855
30°	80688
35°	51388
40°	28681
45°	24020
50°	21684
55°	20440
60°	18650
65°	16818
70°	14840
75°	13201
80°	11702
85°	10614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	7.5
10°-20°	867.9	19.6
20°-30°	1210.8	27.3
30°-40°	871.2	19.7
40°-50°	431.8	9.7
50°-60°	337.8	7.6
60°-70°	228.7	5.2
70°-80°	118.8	2.7
80°-90°	34.2	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°	2410.8	54.4
0°-40°	3282.0	74.0
0°-60°	4051.6	91.4
0°-90°	4433.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4433.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3676	
5°	3562	332
15°	3077	868
25°	2670	1211
35°	1365	871
45°	551	432
55°	380	338
65°	230	229
75°	111	119
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3676.2
2.5°	3643.2
5°	3562.4
7.5°	3448.7
10°	3313.9
12.5°	3188.2
15°	3077.4
17.5°	2972.6
20°	2879.9
22.5°	2787.0
25°	2670.3
27.5°	2502.6
30°	2266.1
32.5°	1895.0
35°	1365.1
37.5°	931.0
40°	712.5
42.5°	613.7
45°	550.8
47.5°	496.9
50°	452.0
52.5°	413.1
55°	380.2
57.5°	341.3
60°	302.4
62.5°	263.4
65°	230.5
67.5°	197.6
70°	164.6
72.5°	137.7
75°	110.8
77.5°	86.9
80°	65.9
82.5°	47.9
85°	30.0
87.5°	15.0
90°	0.0



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— 0°-180°







(END OF REPORT)