

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: P584458

Luminaire Tested: **HC835D010-HM82555930-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584458
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-HM82555930-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3796.8 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

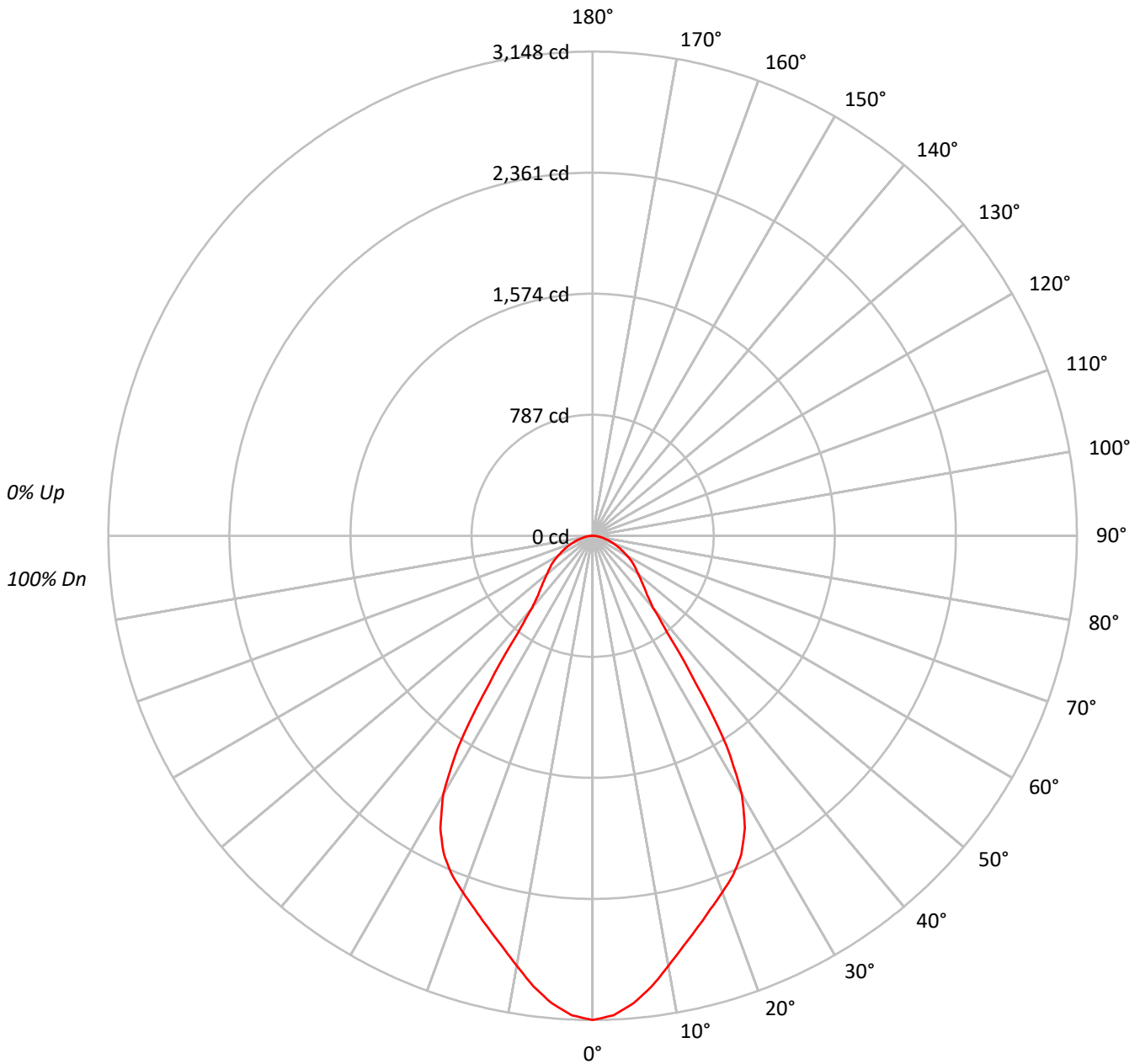
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	97082
5°	94438
10°	88870
15°	84139
20°	80936
25°	77813
30°	69106
35°	44010
40°	24559
45°	20575
50°	18575
55°	17505
60°	15967
65°	14403
70°	12712
75°	11307
80°	10015
85°	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	7.5
10°-20°	743.3	19.6
20°-30°	1037.0	27.3
30°-40°	746.2	19.7
40°-50°	369.8	9.7
50°-60°	289.3	7.6
60°-70°	195.8	5.2
70°-80°	101.7	2.7
80°-90°	29.3	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°	2064.7	54.4
0°-40°	2810.8	74.0
0°-60°	3469.9	91.4
0°-90°	3796.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3796.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3148	
5°	3051	284
15°	2636	743
25°	2287	1037
35°	1169	746
45°	472	370
55°	326	289
65°	197	196
75°	95	102
85°	26	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3148.3
2.5°	3120.2
5°	3050.9
7.5°	2953.5
10°	2838.2
12.5°	2730.5
15°	2635.6
17.5°	2545.9
20°	2466.4
22.5°	2386.9
25°	2287.0
27.5°	2143.3
30°	1940.8
32.5°	1622.9
35°	1169.1
37.5°	797.4
40°	610.1
42.5°	525.6
45°	471.8
47.5°	425.6
50°	387.2
52.5°	353.8
55°	325.6
57.5°	292.3
60°	258.9
62.5°	225.6
65°	197.4
67.5°	169.2
70°	141.0
72.5°	117.9
75°	94.9
77.5°	74.4
80°	56.4
82.5°	41.0
85°	25.6
87.5°	12.8
90°	0.0



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— 0°-180°







(END OF REPORT)