

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: P584495

Luminaire Tested: **HC835D010-HM82555940-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555940-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3814.8 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

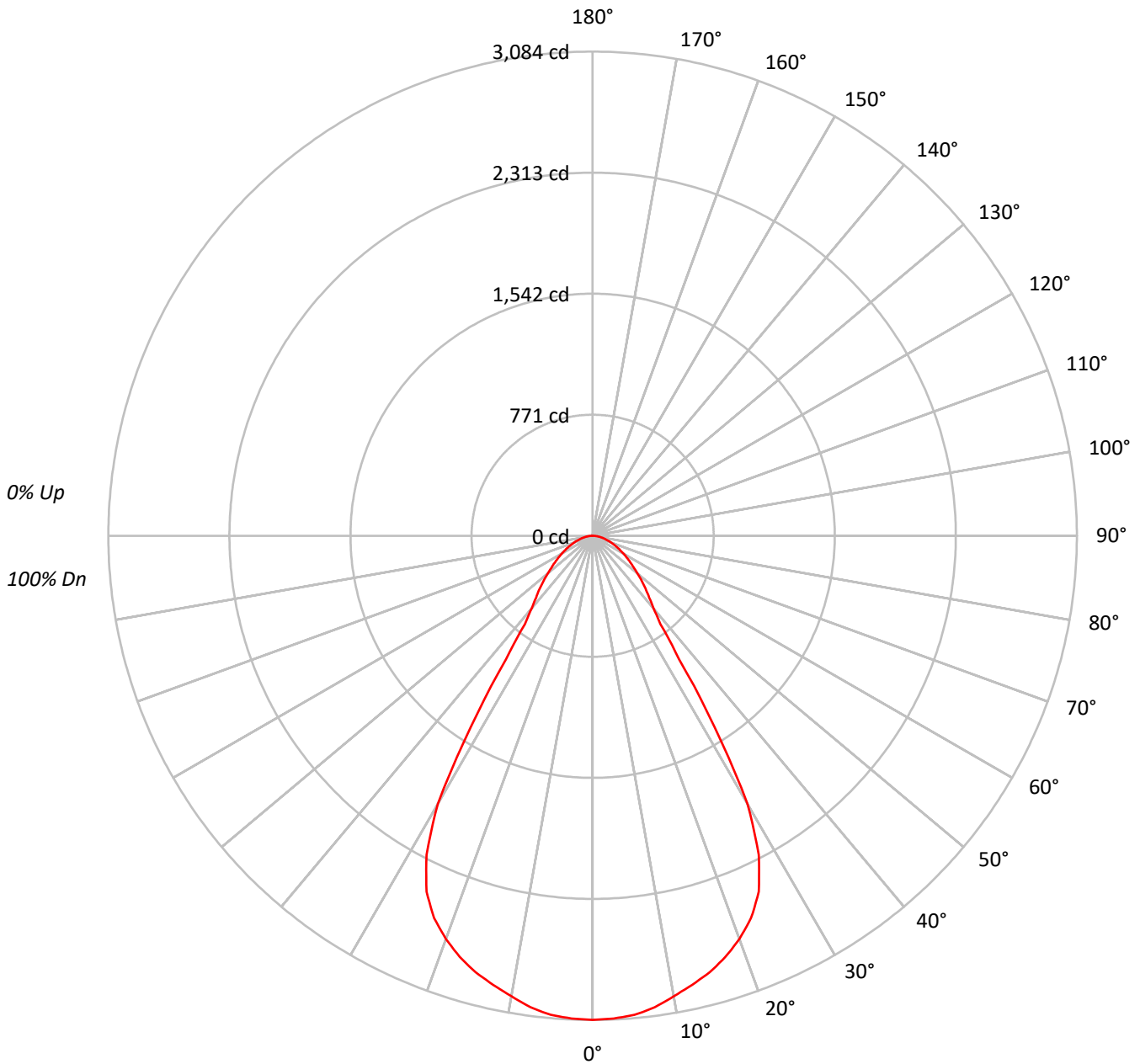
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	95090
5°	94831
10°	93253
15°	91890
20°	89688
25°	85139
30°	70220
35°	36153
40°	24205
45°	20758
50°	17908
55°	15623
60°	13883
65°	12477
70°	11306
75°	10187
80°	9110
85°	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	7.6
10°-20°	809.8	21.2
20°-30°	1122.1	29.4
30°-40°	674.0	17.7
40°-50°	369.0	9.7
50°-60°	262.1	6.9
60°-70°	170.1	4.5
70°-80°	90.9	2.4
80°-90°	27.1	0.7
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°	2221.6	58.2
0°-40°	2895.5	75.9
0°-60°	3526.6	92.4
0°-90°	3814.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3814.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3084	
5°	3064	290
15°	2878	810
25°	2502	1122
35°	960	674
45°	476	369
55°	291	262
65°	171	170
75°	86	91
85°	26	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3083.7
2.5°	3077.9
5°	3063.6
7.5°	3029.5
10°	2978.2
12.5°	2929.7
15°	2878.4
17.5°	2812.9
20°	2733.1
22.5°	2636.2
25°	2502.3
27.5°	2291.3
30°	1972.1
32.5°	1444.9
35°	960.4
37.5°	709.6
40°	601.3
42.5°	533.0
45°	476.0
47.5°	421.8
50°	373.3
52.5°	327.8
55°	290.6
57.5°	256.5
60°	225.1
62.5°	196.6
65°	171.0
67.5°	145.3
70°	125.4
72.5°	102.5
75°	85.5
77.5°	68.4
80°	51.3
82.5°	37.0
85°	25.6
87.5°	11.4
90°	0.0



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— 0°-180°







(END OF REPORT)