

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: P593695

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593695
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-HM82555850-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4008.2 lumens
Efficiency: N/A
Efficacy: 118.9 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

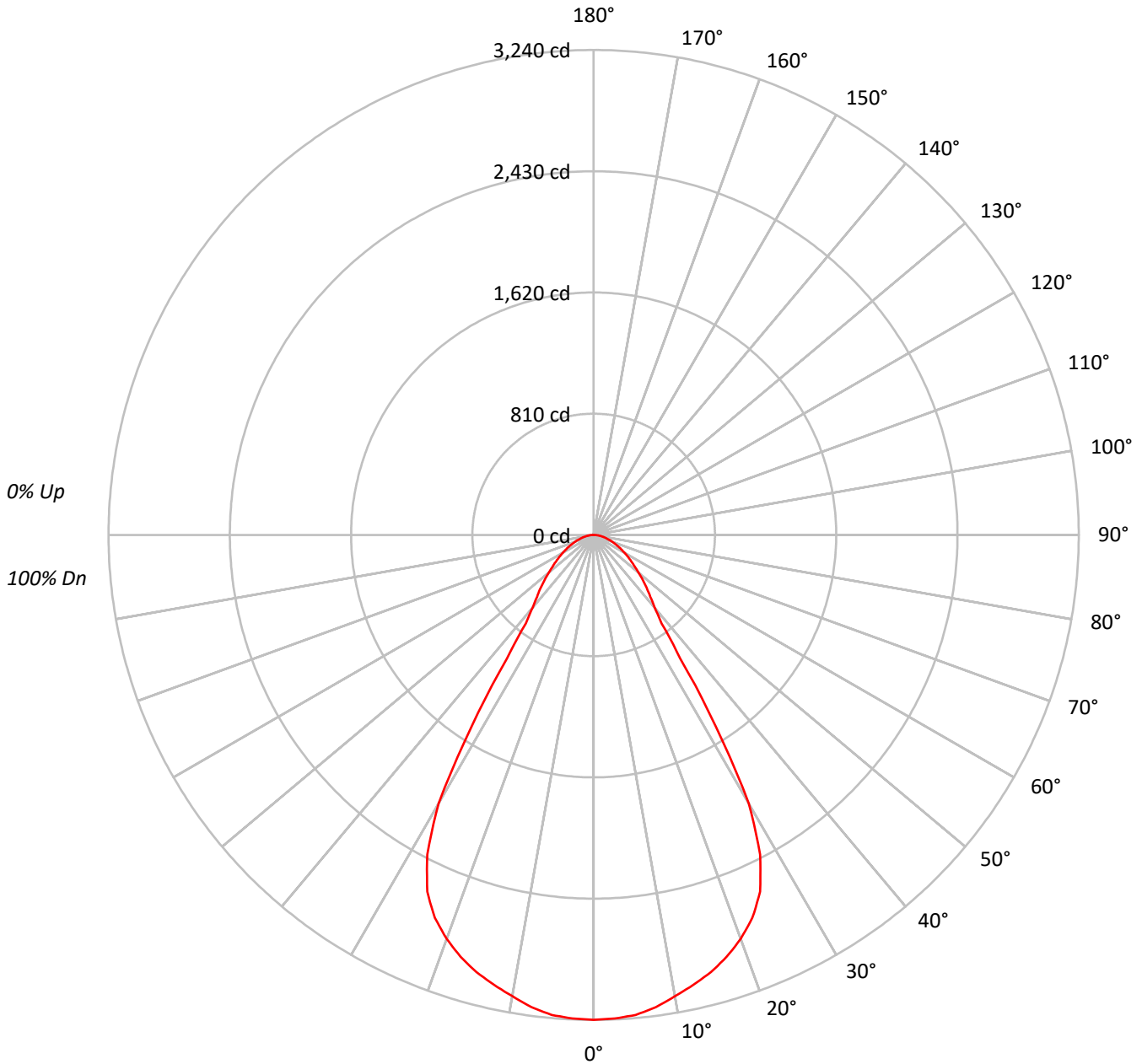
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	99907
5°	99638
10°	97982
15°	96551
20°	94232
25°	89449
30°	73781
35°	37987
40°	25432
45°	21805
50°	18815
55°	16419
60°	14592
65°	13112
70°	11883
75°	10699
80°	9572
85°	9553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	7.6
10°-20°	850.9	21.2
20°-30°	1178.9	29.4
30°-40°	708.1	17.7
40°-50°	387.6	9.7
50°-60°	275.4	6.9
60°-70°	178.8	4.5
70°-80°	95.5	2.4
80°-90°	28.5	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°	2334.2	58.2
0°-40°	3042.3	75.9
0°-60°	3705.3	92.4
0°-90°	4008.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3240	
5°	3219	304
15°	3024	851
25°	2629	1179
35°	1009	708
45°	500	388
55°	305	275
65°	180	179
75°	90	96
85°	27	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3239.9
2.5°	3233.9
5°	3218.9
7.5°	3183.1
10°	3129.2
12.5°	3078.3
15°	3024.4
17.5°	2955.5
20°	2871.6
22.5°	2769.8
25°	2629.0
27.5°	2407.5
30°	2072.1
32.5°	1518.1
35°	1009.1
37.5°	745.6
40°	631.8
42.5°	559.9
45°	500.0
47.5°	443.1
50°	392.2
52.5°	344.3
55°	305.4
57.5°	269.6
60°	236.6
62.5°	206.7
65°	179.7
67.5°	152.7
70°	131.8
72.5°	107.8
75°	89.8
77.5°	71.9
80°	53.9
82.5°	38.9
85°	27.0
87.5°	12.0
90°	0.0



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— 0°-180°







(END OF REPORT)