

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: P584393

Luminaire Tested: **HC835D010-HM82555830-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584393
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-HM82555830-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3491.4 lumens
Efficiency: N/A
Efficacy: 103.6 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

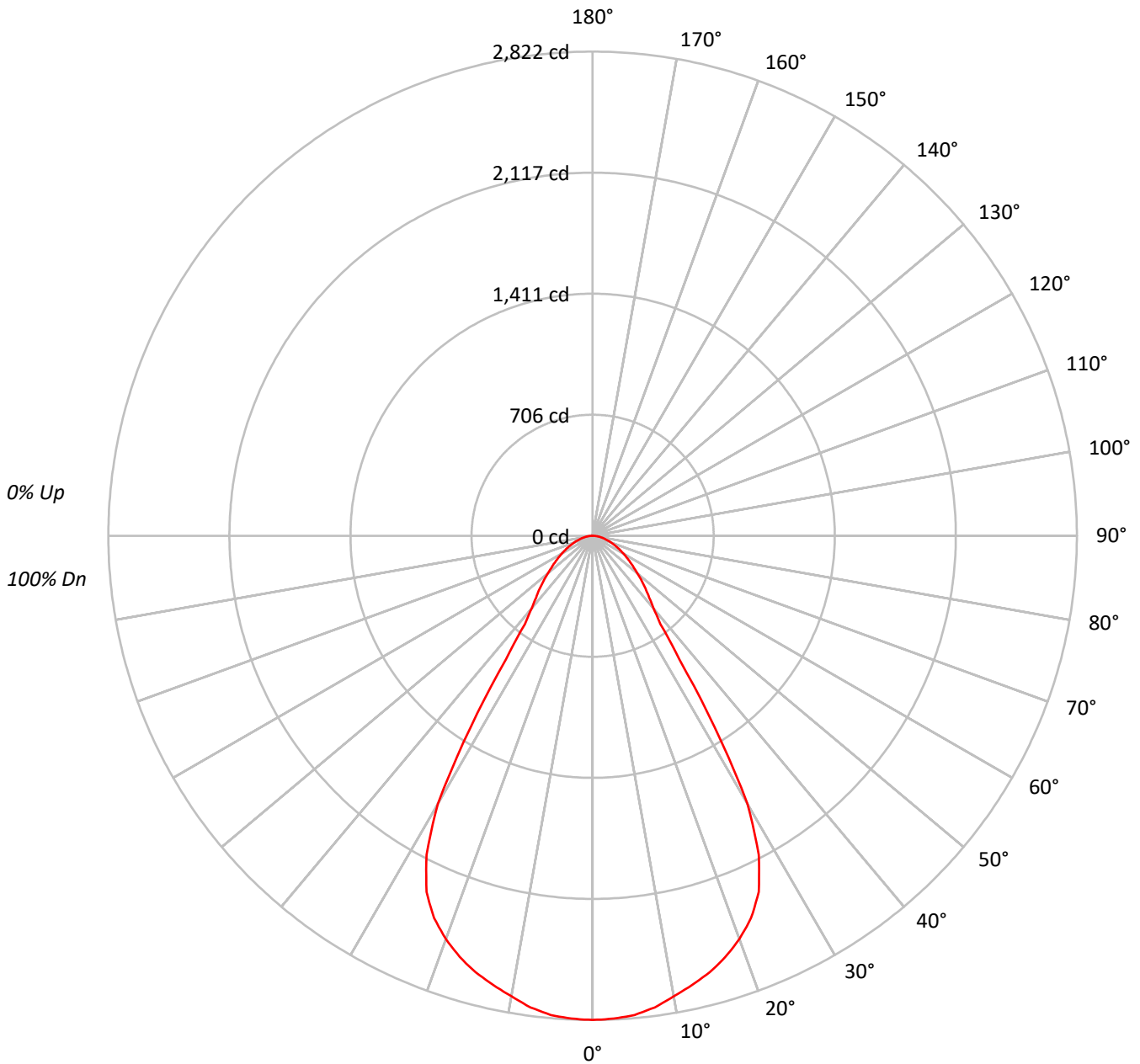
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	87023
5°	86789
10°	85344
15°	84098
20°	82081
25°	77915
30°	64267
35°	33089
40°	22156
45°	18996
50°	16392
55°	14306
60°	12711
65°	11419
70°	10350
75°	9317
80°	8346
85°	8314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	7.6
10°-20°	741.2	21.2
20°-30°	1026.9	29.4
30°-40°	616.8	17.7
40°-50°	337.7	9.7
50°-60°	239.9	6.9
60°-70°	155.7	4.5
70°-80°	83.2	2.4
80°-90°	24.8	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°	2033.2	58.2
0°-40°	2650.0	75.9
0°-60°	3227.6	92.4
0°-90°	3491.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2822	
5°	2804	265
15°	2634	741
25°	2290	1027
35°	879	617
45°	436	338
55°	266	240
65°	156	156
75°	78	83
85°	24	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2822.1
2.5°	2816.9
5°	2803.8
7.5°	2772.5
10°	2725.6
12.5°	2681.2
15°	2634.3
17.5°	2574.3
20°	2501.3
22.5°	2412.7
25°	2290.0
27.5°	2097.0
30°	1804.9
32.5°	1322.4
35°	879.0
37.5°	649.4
40°	550.4
42.5°	487.7
45°	435.6
47.5°	386.0
50°	341.7
52.5°	300.0
55°	266.1
57.5°	234.7
60°	206.1
62.5°	179.9
65°	156.5
67.5°	133.0
70°	114.8
72.5°	93.9
75°	78.2
77.5°	62.7
80°	47.0
82.5°	33.9
85°	23.5
87.5°	10.4
90°	0.0



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— 0°-180°







(END OF REPORT)