

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: P584485

Luminaire Tested: **HC835D010-HM82555935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3959.1 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

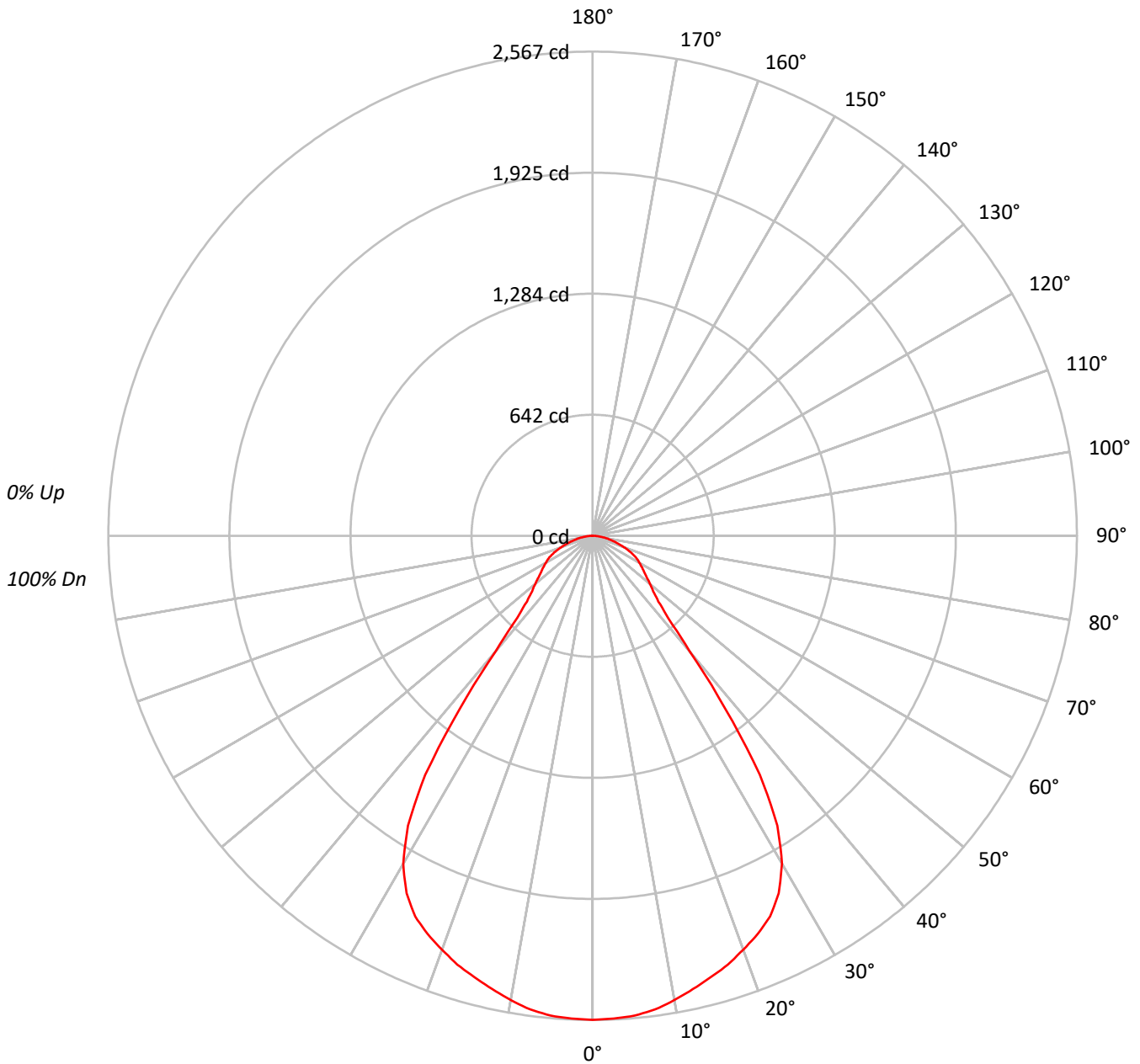
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79148
5°	79054
10°	78271
15°	77336
20°	76617
25°	75758
30°	71480
35°	58209
40°	32159
45°	21469
50°	19040
55°	17870
60°	17645
65°	17490
70°	15805
75°	14130
80°	12360
85°	10933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	6.1
10°-20°	684.0	17.3
20°-30°	1016.3	25.7
30°-40°	915.3	23.1
40°-50°	405.8	10.2
50°-60°	300.5	7.6
60°-70°	233.7	5.9
70°-80°	126.7	3.2
80°-90°	34.7	0.9
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°	1942.4	49.1
0°-40°	2857.7	72.2
0°-60°	3563.9	90.0
0°-90°	3959.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3959.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2567	
5°	2554	242
15°	2422	684
25°	2227	1016
35°	1546	915
45°	492	406
55°	332	300
65°	240	234
75°	119	127
85°	31	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2566.7
2.5°	2561.6
5°	2553.9
7.5°	2533.3
10°	2499.7
12.5°	2461.1
15°	2422.5
17.5°	2383.8
20°	2334.8
22.5°	2285.9
25°	2226.6
27.5°	2136.4
30°	2007.5
32.5°	1821.9
35°	1546.3
37.5°	1154.5
40°	798.9
42.5°	590.1
45°	492.3
47.5°	435.5
50°	396.9
52.5°	360.8
55°	332.4
57.5°	309.2
60°	286.1
62.5°	265.5
65°	239.7
67.5°	208.7
70°	175.3
72.5°	146.9
75°	118.6
77.5°	92.7
80°	69.6
82.5°	49.0
85°	30.9
87.5°	12.9
90°	0.0



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— 0°-180°







(END OF REPORT)