

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: P584475

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584475
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-HM82555935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3817.2 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

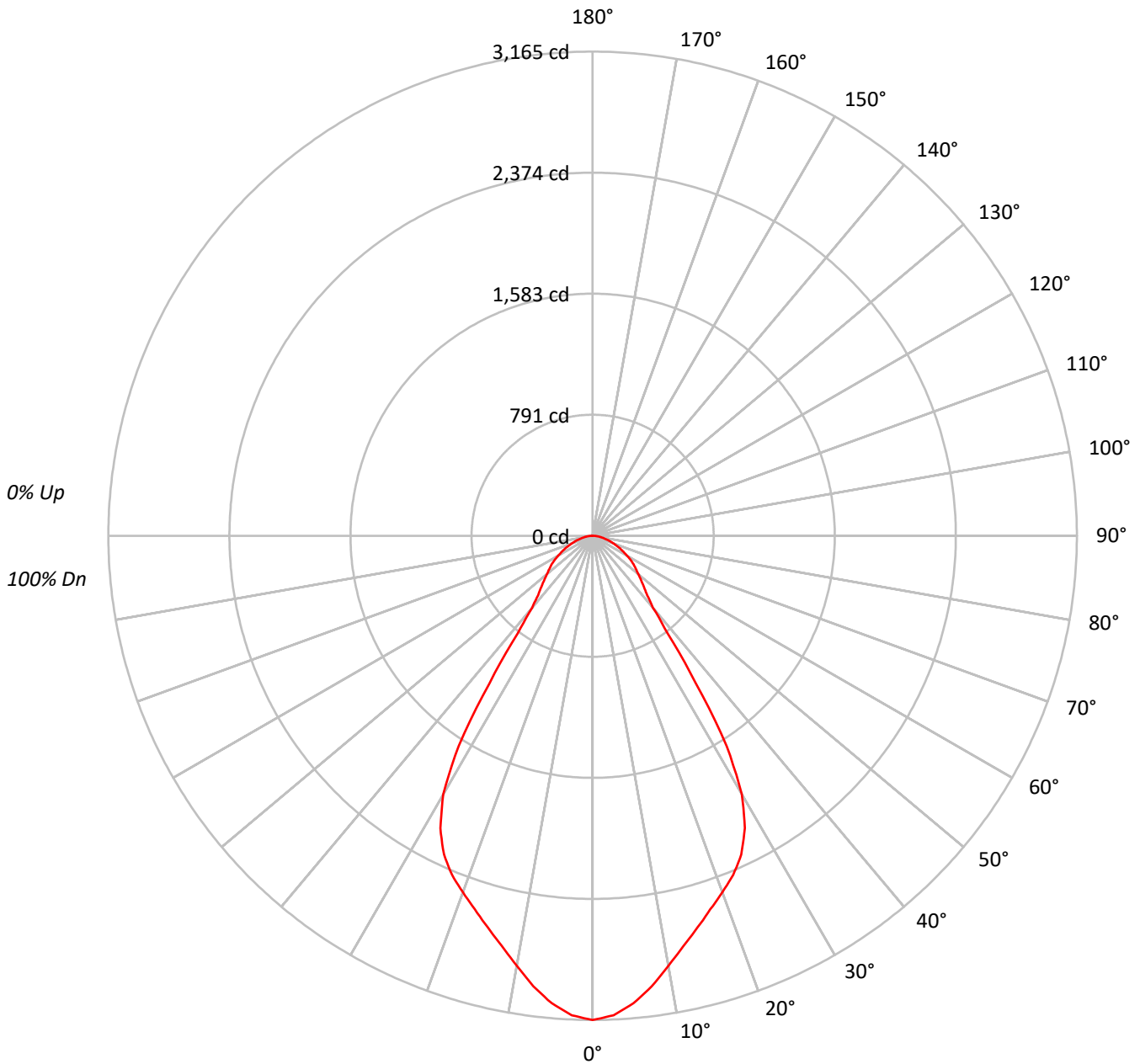
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97609
5°	94949
10°	89346
15°	84596
20°	81369
25°	78228
30°	69479
35°	44247
40°	24696
45°	20684
50°	18671
55°	17602
60°	16053
65°	14484
70°	12776
75°	11366
80°	10069
85°	9128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.0	7.5
10°-20°	747.3	19.6
20°-30°	1042.5	27.3
30°-40°	750.2	19.7
40°-50°	371.8	9.7
50°-60°	290.9	7.6
60°-70°	196.9	5.2
70°-80°	102.3	2.7
80°-90°	29.5	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°	2075.8	54.4
0°-40°	2825.9	74.0
0°-60°	3488.6	91.4
0°-90°	3817.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3817.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3165	
5°	3067	286
15°	2650	747
25°	2299	1043
35°	1175	750
45°	474	372
55°	327	291
65°	198	197
75°	95	102
85°	26	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3165.4
2.5°	3137.0
5°	3067.4
7.5°	2969.4
10°	2853.4
12.5°	2745.2
15°	2649.9
17.5°	2559.5
20°	2479.6
22.5°	2399.7
25°	2299.2
27.5°	2154.8
30°	1951.3
32.5°	1631.7
35°	1175.4
37.5°	801.6
40°	613.5
42.5°	528.4
45°	474.3
47.5°	427.9
50°	389.2
52.5°	355.7
55°	327.4
57.5°	293.9
60°	260.3
62.5°	226.8
65°	198.5
67.5°	170.1
70°	141.7
72.5°	118.6
75°	95.4
77.5°	74.8
80°	56.7
82.5°	41.2
85°	25.8
87.5°	12.9
90°	0.0



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— 0°-180°







(END OF REPORT)