

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: P584441

Luminaire Tested: **HC835D010-HM82555927-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584441
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-HM82555927-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3188.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

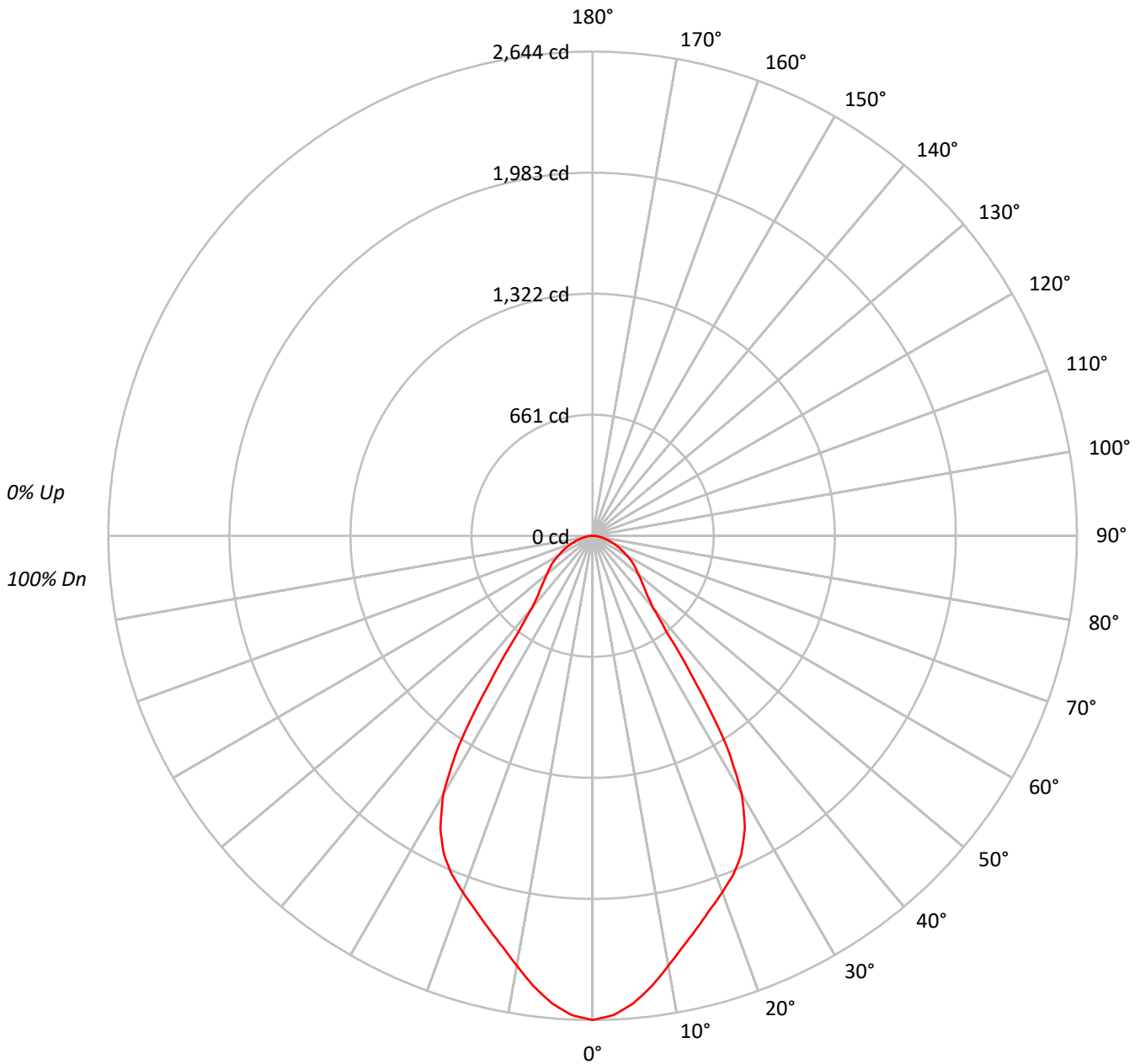
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	81528
5°	79304
10°	74629
15°	70658
20°	67967
25°	65343
30°	58035
35°	36959
40°	20626
45°	17278
50°	15596
55°	14698
60°	13408
65°	12098
70°	10675
75°	9496
80°	8399
85°	7642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	7.5
10°-20°	624.2	19.6
20°-30°	870.8	27.3
30°-40°	626.6	19.7
40°-50°	310.5	9.7
50°-60°	243.0	7.6
60°-70°	164.5	5.2
70°-80°	85.4	2.7
80°-90°	24.6	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°	1733.9	54.4
0°-40°	2360.5	74.0
0°-60°	2913.9	91.4
0°-90°	3188.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3188.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2644	
5°	2562	239
15°	2213	624
25°	1920	871
35°	982	627
45°	396	311
55°	273	243
65°	166	164
75°	80	85
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2643.9
2.5°	2620.3
5°	2562.0
7.5°	2480.2
10°	2383.4
12.5°	2293.0
15°	2213.3
17.5°	2138.0
20°	2071.2
22.5°	2004.5
25°	1920.5
27.5°	1799.9
30°	1629.9
32.5°	1362.8
35°	981.8
37.5°	669.6
40°	512.4
42.5°	441.3
45°	396.2
47.5°	357.4
50°	325.1
52.5°	297.1
55°	273.4
57.5°	245.5
60°	217.4
62.5°	189.5
65°	165.8
67.5°	142.1
70°	118.4
72.5°	99.1
75°	79.7
77.5°	62.4
80°	47.3
82.5°	34.5
85°	21.6
87.5°	10.8
90°	0.0



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— 0°-180°







(END OF REPORT)