

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: P584873

Luminaire Tested: **HC850D010-HM82555930-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555930-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4989.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

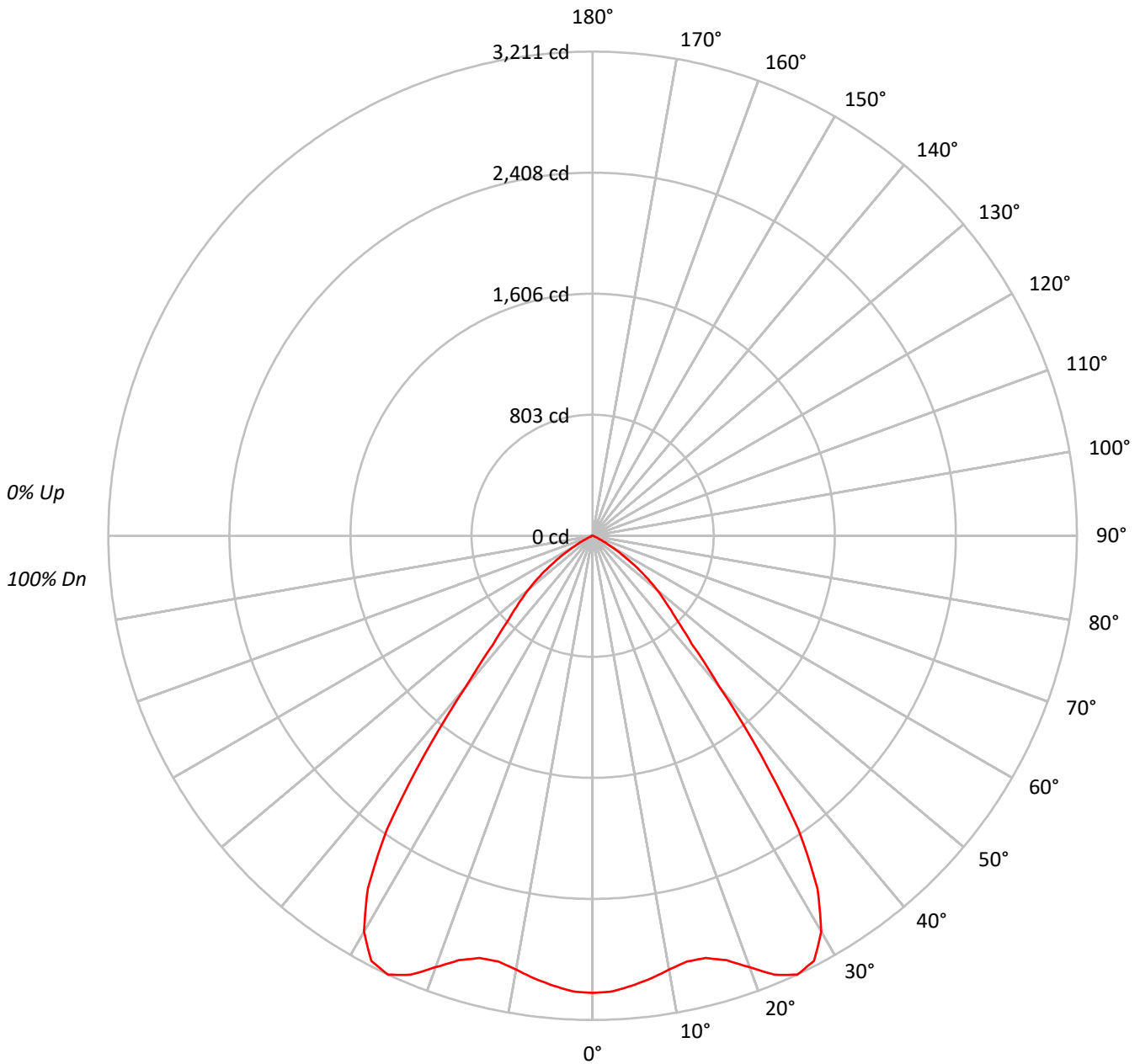
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93480
5°	92698
10°	91475
15°	92522
20°	99916
25°	109265
30°	107942
35°	89533
40°	52700
45°	34429
50°	26687
55°	17731
60°	8628
65°	2671
70°	893
75°	798
80°	586
85°	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	5.7
10°-20°	832.6	16.7
20°-30°	1455.8	29.2
30°-40°	1416.1	28.4
40°-50°	644.0	12.9
50°-60°	298.6	6.0
60°-70°	50.0	1.0
70°-80°	6.1	0.1
80°-90°	2.2	0.0
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°	2572.0	51.6
0°-40°	3988.1	79.9
0°-60°	4930.7	98.8
0°-90°	4989.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4989.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3032	
5°	2995	284
15°	2898	833
25°	3211	1456
35°	2378	1416
45°	790	644
55°	330	299
65°	37	50
75°	7	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3031.5
2.5°	3024.8
5°	2994.7
7.5°	2961.4
10°	2921.4
12.5°	2891.5
15°	2898.2
17.5°	2951.5
20°	3044.8
22.5°	3151.4
25°	3211.4
27.5°	3178.0
30°	3031.5
32.5°	2775.0
35°	2378.4
37.5°	1832.2
40°	1309.2
42.5°	976.0
45°	789.5
47.5°	666.2
50°	556.3
52.5°	443.1
55°	329.8
57.5°	226.6
60°	139.9
62.5°	76.6
65°	36.6
67.5°	16.6
70°	9.9
72.5°	6.7
75°	6.7
77.5°	3.3
80°	3.3
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)