

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: P593670

Luminaire Tested: **HC830D010-HM82555950-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555950-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3904.5 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

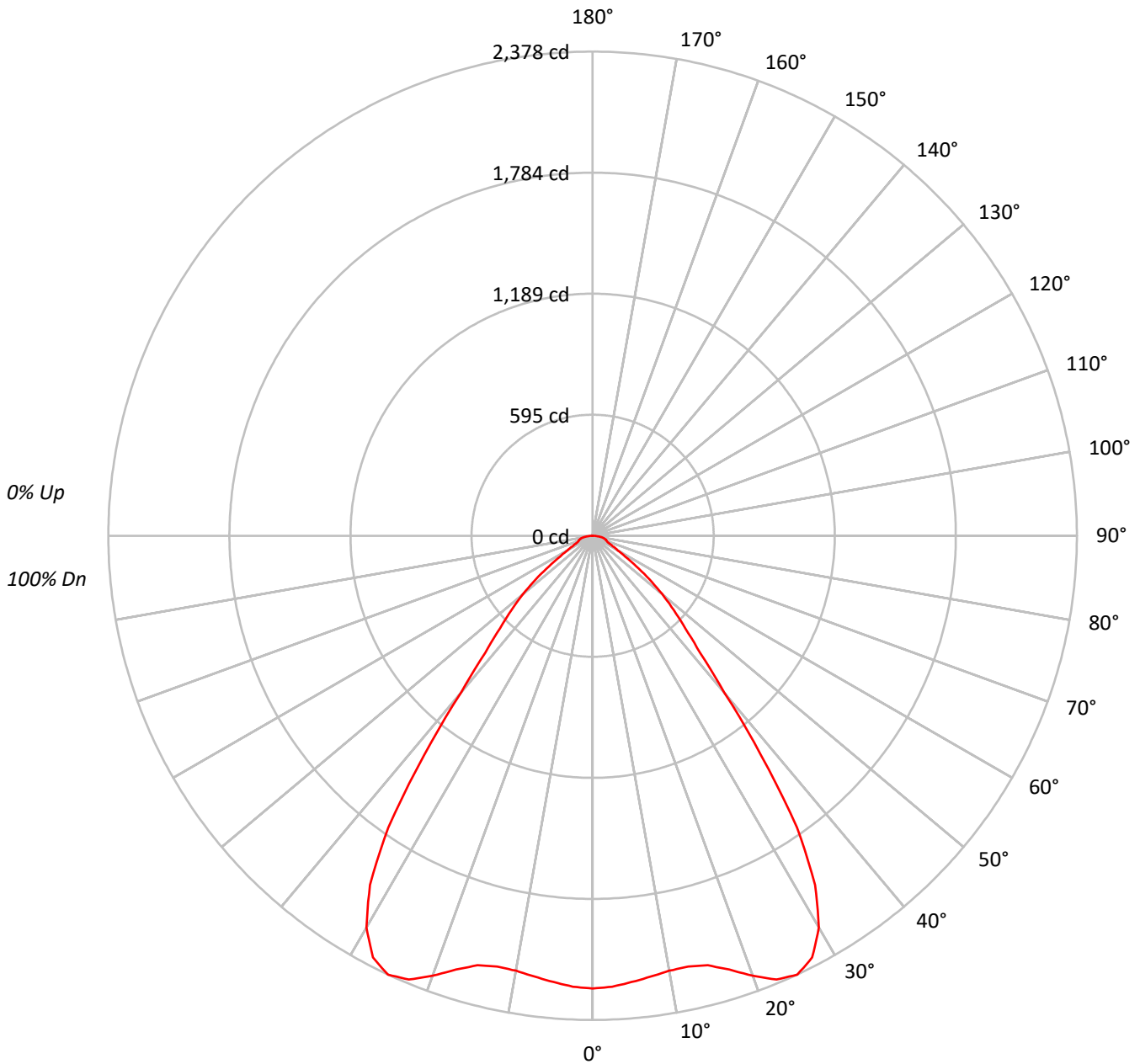
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90		
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45		
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41		
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	68574
5°	68102
10°	67922
15°	69706
20°	75462
25°	80906
30°	79097
35°	65862
40°	40463
45°	28019
50°	21386
55°	14016
60°	8770
65°	6574
70°	6627
75°	7625
80°	8417
85°	7536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	5.4
10°-20°	626.8	16.1
20°-30°	1079.1	27.6
30°-40°	1045.4	26.8
40°-50°	514.9	13.2
50°-60°	243.0	6.2
60°-70°	95.7	2.5
70°-80°	66.1	1.7
80°-90°	24.5	0.6
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°	1914.9	49.0
0°-40°	2960.3	75.8
0°-60°	3718.2	95.2
0°-90°	3904.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3904.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2224	
5°	2200	209
15°	2184	627
25°	2378	1079
35°	1750	1045
45°	642	515
55°	261	243
65°	90	96
75°	64	66
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2223.8
2.5°	2216.7
5°	2200.1
7.5°	2183.5
10°	2169.2
12.5°	2166.8
15°	2183.5
17.5°	2233.3
20°	2299.6
22.5°	2359.0
25°	2377.9
27.5°	2335.2
30°	2221.4
32.5°	2034.1
35°	1749.6
37.5°	1358.4
40°	1005.2
42.5°	780.0
45°	642.5
47.5°	540.5
50°	445.8
52.5°	350.9
55°	260.7
57.5°	189.6
60°	142.2
62.5°	111.4
65°	90.1
67.5°	78.2
70°	73.5
72.5°	68.7
75°	64.0
77.5°	57.0
80°	47.4
82.5°	35.6
85°	21.3
87.5°	9.5
90°	0.0



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— 0°-180°







(END OF REPORT)