

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: P584196

Luminaire Tested: **HC825D010-HM82555930-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584196
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: HC825D010-HM82555930-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2435.2 lumens
Efficiency: N/A
Efficacy: 90.9 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

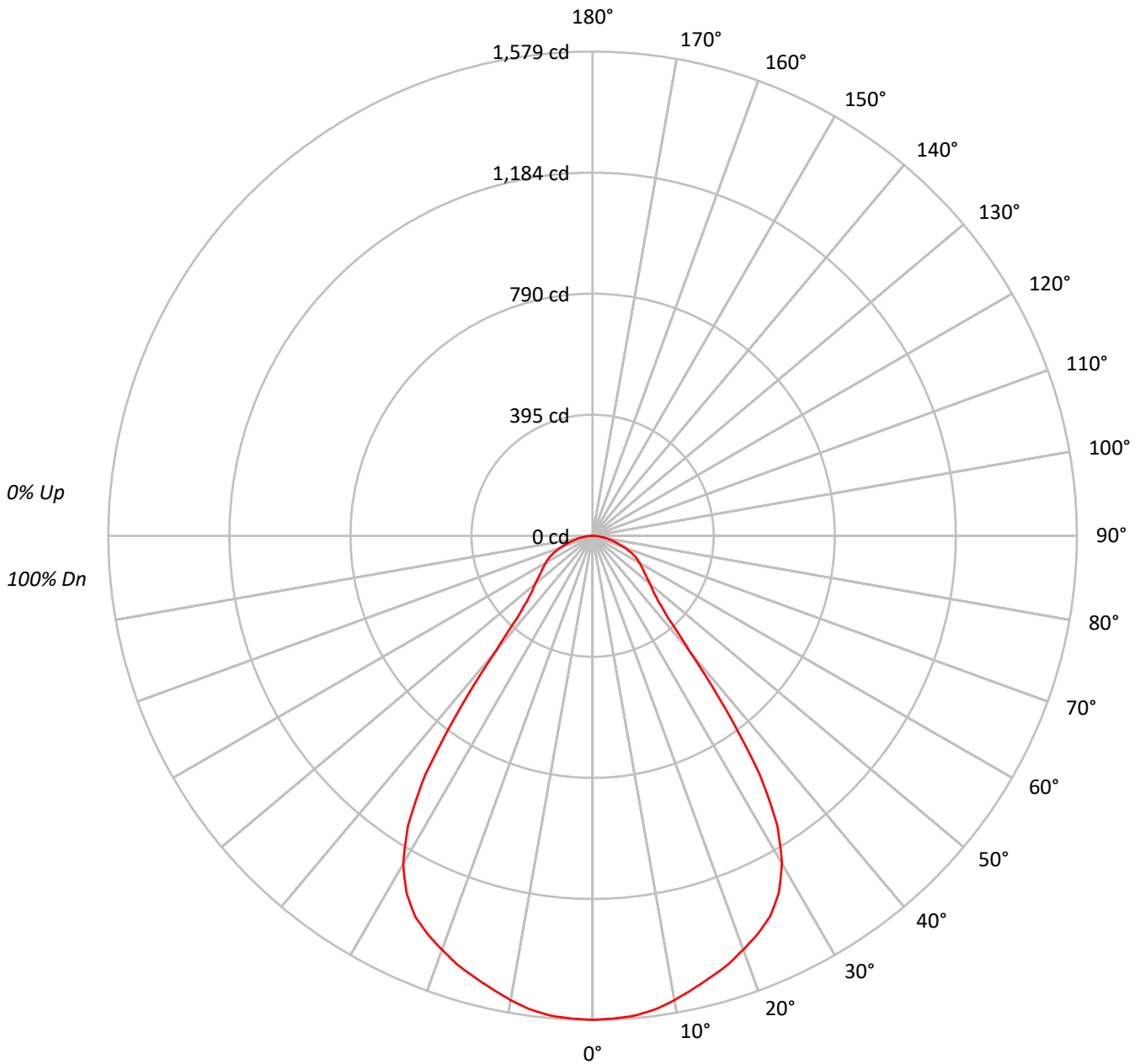
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	48687
5°	48629
10°	48148
15°	47570
20°	47129
25°	46599
30°	43971
35°	35803
40°	19785
45°	13205
50°	11715
55°	10994
60°	10848
65°	10755
70°	9710
75°	8685
80°	7600
85°	6722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	6.1
10°-20°	420.7	17.3
20°-30°	625.2	25.7
30°-40°	563.0	23.1
40°-50°	249.6	10.3
50°-60°	184.8	7.6
60°-70°	143.7	5.9
70°-80°	77.9	3.2
80°-90°	21.3	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°	1194.8	49.1
0°-40°	1757.8	72.2
0°-60°	2192.3	90.0
0°-90°	2435.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2435.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1579	
5°	1571	149
15°	1490	421
25°	1370	625
35°	951	563
45°	303	250
55°	204	185
65°	147	144
75°	73	78
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1578.9
2.5°	1575.7
5°	1571.0
7.5°	1558.2
10°	1537.7
12.5°	1513.8
15°	1490.1
17.5°	1466.3
20°	1436.2
22.5°	1406.1
25°	1369.6
27.5°	1314.2
30°	1234.9
32.5°	1120.7
35°	951.1
37.5°	710.2
40°	491.5
42.5°	363.1
45°	302.8
47.5°	267.9
50°	244.2
52.5°	221.9
55°	204.5
57.5°	190.2
60°	175.9
62.5°	163.3
65°	147.4
67.5°	128.4
70°	107.7
72.5°	90.3
75°	72.9
77.5°	57.0
80°	42.8
82.5°	30.1
85°	19.0
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)