

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: P583646

Luminaire Tested: **HC807D010-HM80520930-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583646
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: HC807D010-HM80520930-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 833.6 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

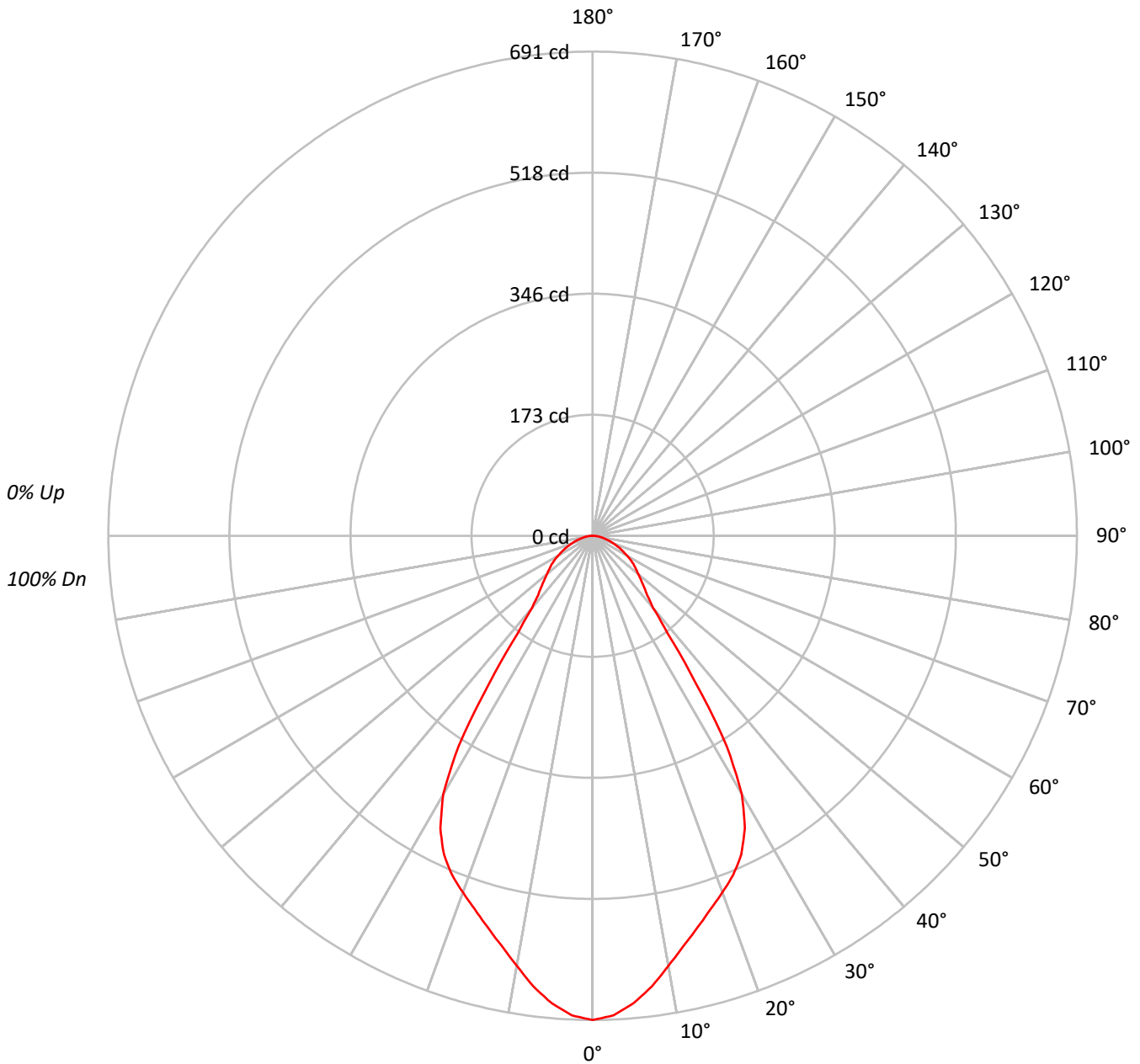
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
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	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21311
5°	20730
10°	19511
15°	18471
20°	17769
25°	17080
30°	15168
35°	9663
40°	5394
45°	4518
50°	4078
55°	3844
60°	3509
65°	3167
70°	2795
75°	2478
80°	2202
85°	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	7.5
10°-20°	163.2	19.6
20°-30°	227.6	27.3
30°-40°	163.8	19.7
40°-50°	81.2	9.7
50°-60°	63.5	7.6
60°-70°	43.0	5.2
70°-80°	22.4	2.7
80°-90°	6.4	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°	453.3	54.4
0°-40°	617.1	74.0
0°-60°	761.8	91.4
0°-90°	833.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	691	
5°	670	62
15°	579	163
25°	502	228
35°	257	164
45°	104	81
55°	72	64
65°	43	43
75°	21	22
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	691.1
2.5°	685.0
5°	669.7
7.5°	648.4
10°	623.1
12.5°	599.4
15°	578.6
17.5°	558.9
20°	541.5
22.5°	524.0
25°	502.0
27.5°	470.5
30°	426.0
32.5°	356.2
35°	256.7
37.5°	175.1
40°	134.0
42.5°	115.3
45°	103.6
47.5°	93.4
50°	85.0
52.5°	77.7
55°	71.5
57.5°	64.2
60°	56.9
62.5°	49.5
65°	43.4
67.5°	37.2
70°	31.0
72.5°	25.9
75°	20.8
77.5°	16.4
80°	12.4
82.5°	9.0
85°	5.6
87.5°	2.9
90°	0.0



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— 0°-180°







(END OF REPORT)