

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: P583571

Luminaire Tested: **HC807D010-HM80520827-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583571
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: HC807D010-HM80520827-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 961.2 lumens
Efficiency: N/A
Efficacy: 120.1 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

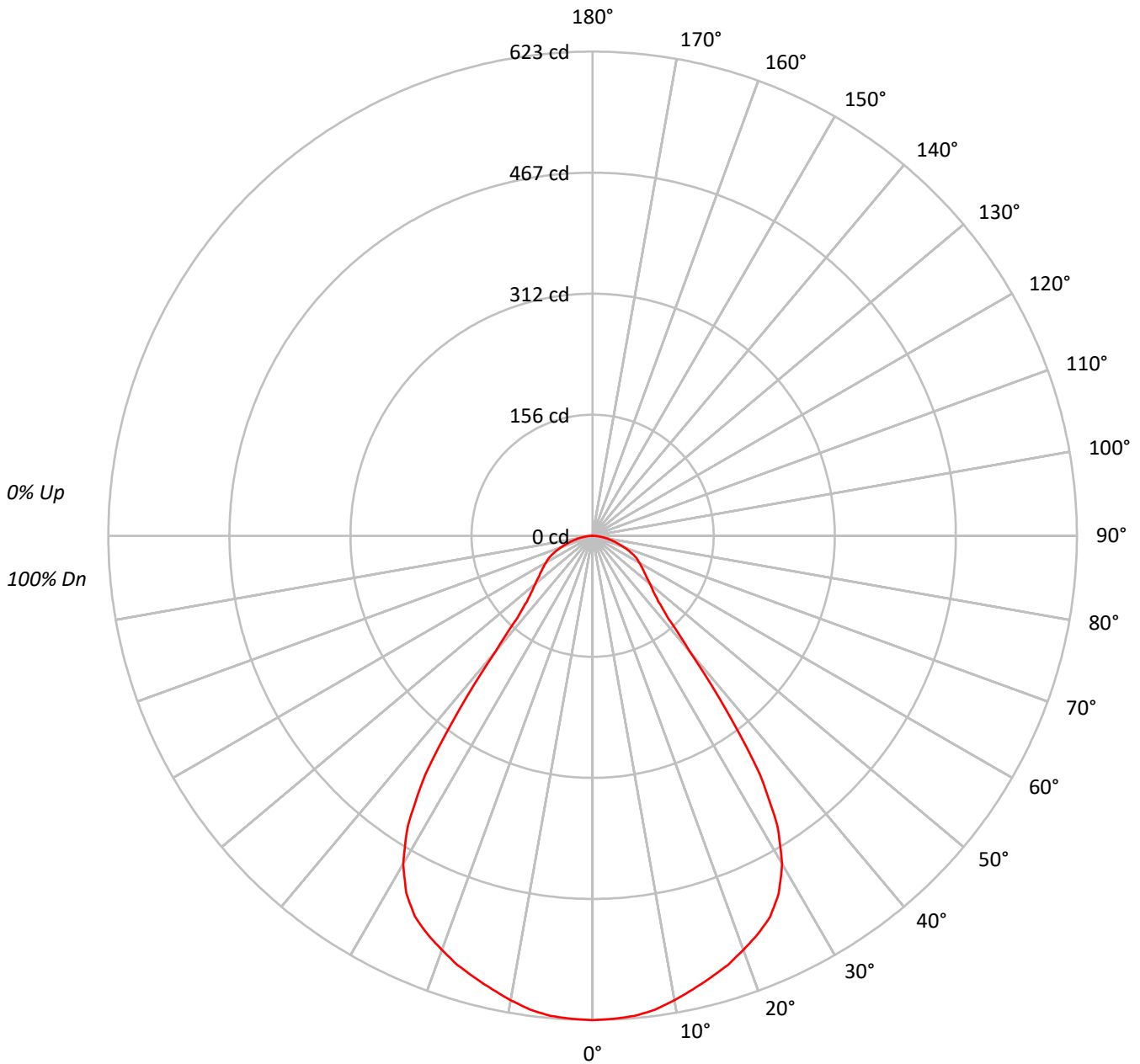
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583571

CATALOG NUMBER: HC807D010-HM80520827-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P583571

CATALOG NUMBER: HC807D010-HM80520827-81WDW

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°	19220
5°	19195
10°	19003
15°	18778
20°	18603
25°	18393
30°	17355
35°	14135
40°	7805
45°	5211
50°	4620
55°	4344
60°	4280
65°	4247
70°	3832
75°	3431
80°	2983
85°	2654



TEST NUMBER: P583571

CATALOG NUMBER: HC807D010-HM80520827-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	6.1
10°-20°	166.1	17.3
20°-30°	246.8	25.7
30°-40°	222.2	23.1
40°-50°	98.5	10.2
50°-60°	72.9	7.6
60°-70°	56.7	5.9
70°-80°	30.8	3.2
80°-90°	8.4	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°	471.6	49.1
0°-40°	693.9	72.2
0°-60°	865.3	90.0
0°-90°	961.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	623	
5°	620	59
15°	588	166
25°	541	247
35°	376	222
45°	120	99
55°	81	73
65°	58	57
75°	29	31
85°	8	8
90°	0	



TEST NUMBER: P583571

CATALOG NUMBER: HC807D010-HM80520827-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	623.3
2.5°	622.0
5°	620.1
7.5°	615.1
10°	606.9
12.5°	597.6
15°	588.2
17.5°	578.9
20°	566.9
22.5°	555.1
25°	540.6
27.5°	518.7
30°	487.4
32.5°	442.4
35°	375.5
37.5°	280.3
40°	193.9
42.5°	143.3
45°	119.5
47.5°	105.8
50°	96.3
52.5°	87.6
55°	80.8
57.5°	75.0
60°	69.4
62.5°	64.4
65°	58.2
67.5°	50.7
70°	42.5
72.5°	35.6
75°	28.8
77.5°	22.6
80°	16.8
82.5°	11.8
85°	7.5
87.5°	3.1
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)