

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: P583578

Luminaire Tested: **HC807D010-HM80520830-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583578
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-HM80520830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 921.9 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

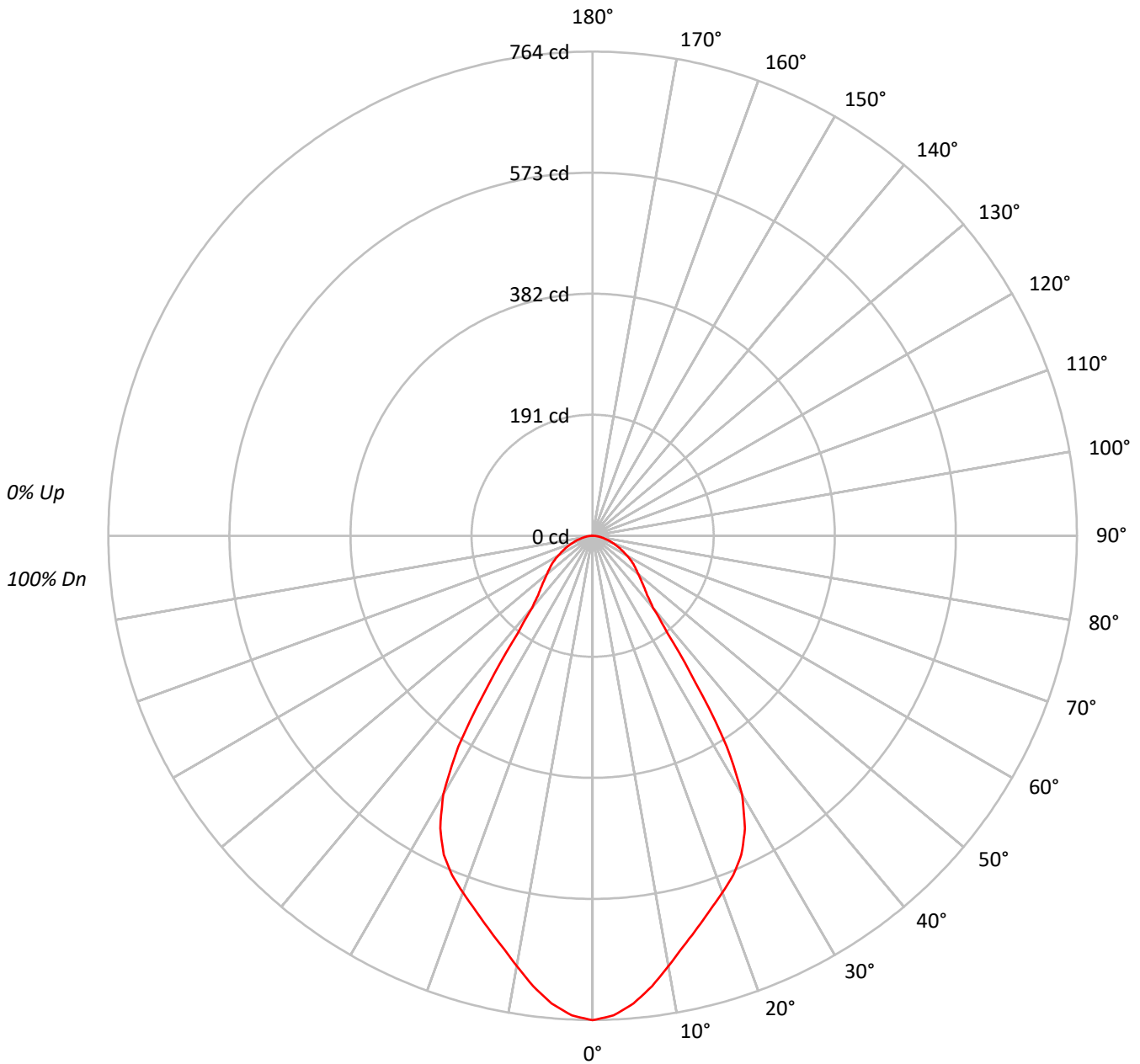
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583578

CATALOG NUMBER: HC807D010-HM80520830-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P583578

CATALOG NUMBER: HC807D010-HM80520830-81MDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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°	23571
5°	22931
10°	21580
15°	20428
20°	19650
25°	18894
30°	16778
35°	10683
40°	5966
45°	4998
50°	4509
55°	4253
60°	3879
65°	3495
70°	3092
75°	2752
80°	2433
85°	2194



TEST NUMBER: P583578

CATALOG NUMBER: HC807D010-HM80520830-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	7.5
10°-20°	180.5	19.6
20°-30°	251.8	27.3
30°-40°	181.2	19.6
40°-50°	89.8	9.7
50°-60°	70.3	7.6
60°-70°	47.5	5.2
70°-80°	24.7	2.7
80°-90°	7.1	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°	501.3	54.4
0°-40°	682.5	74.0
0°-60°	842.5	91.4
0°-90°	921.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	921.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	764	
5°	741	69
15°	640	180
25°	555	252
35°	284	181
45°	115	90
55°	79	70
65°	48	48
75°	23	25
85°	6	7
90°	0	



TEST NUMBER: P583578

CATALOG NUMBER: HC807D010-HM80520830-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	764.4
2.5°	757.6
5°	740.8
7.5°	717.1
10°	689.2
12.5°	663.0
15°	639.9
17.5°	618.2
20°	598.8
22.5°	579.6
25°	555.3
27.5°	520.4
30°	471.2
32.5°	394.0
35°	283.8
37.5°	193.6
40°	148.2
42.5°	127.6
45°	114.6
47.5°	103.4
50°	94.0
52.5°	85.9
55°	79.1
57.5°	71.0
60°	62.9
62.5°	54.7
65°	47.9
67.5°	41.1
70°	34.3
72.5°	28.7
75°	23.1
77.5°	18.0
80°	13.7
82.5°	9.9
85°	6.2
87.5°	3.1
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)