

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: P583598

Luminaire Tested: **HC807D010-HM80520835-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520835-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 867.1 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

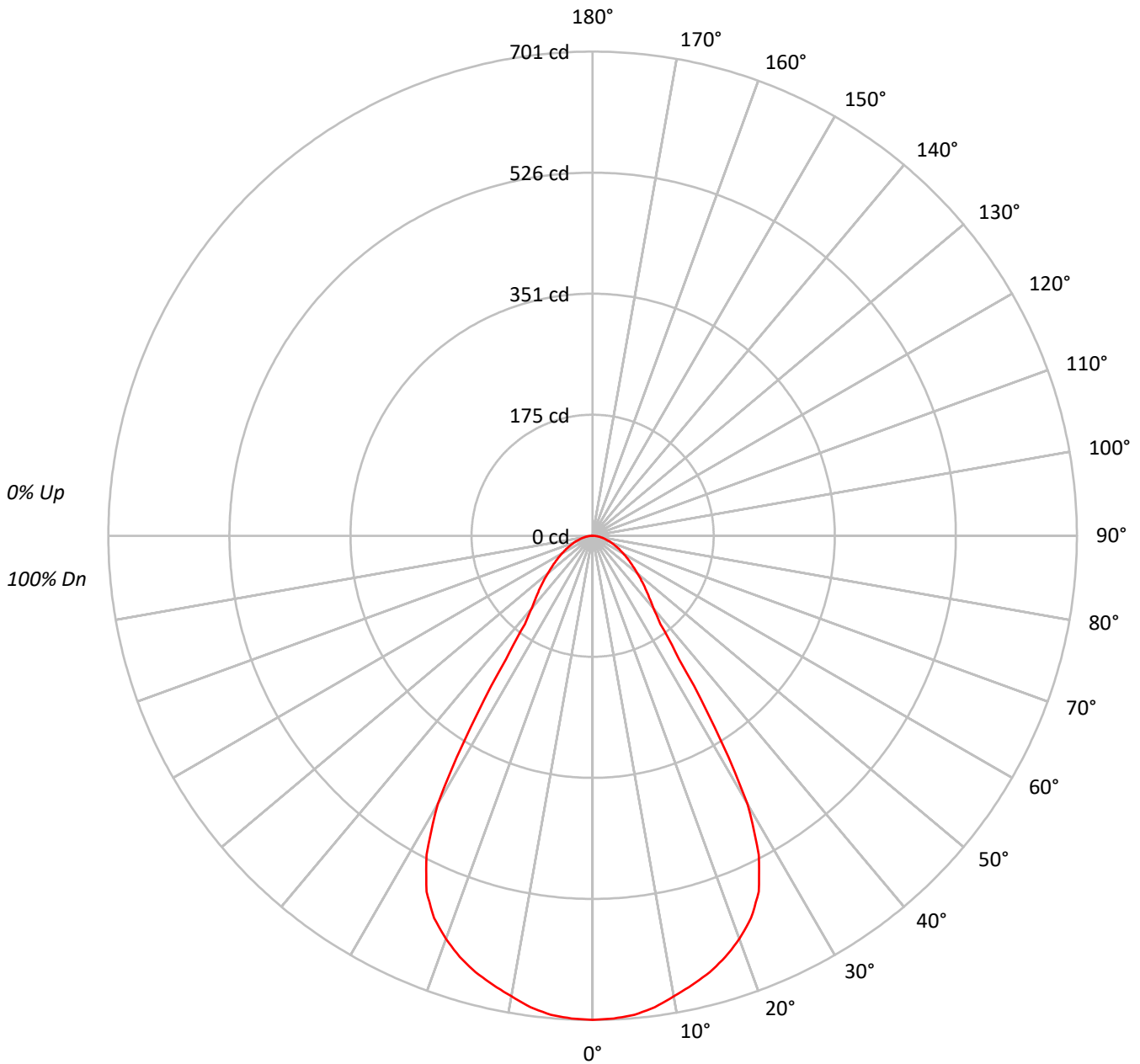
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583598

CATALOG NUMBER: HC807D010-HM80520835-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P583598

CATALOG NUMBER: HC807D010-HM80520835-81NDW

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	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21613
5°	21553
10°	21198
15°	20888
20°	20385
25°	19350
30°	15959
35°	8218
40°	5503
45°	4714
50°	4068
55°	3554
60°	3151
65°	2831
70°	2579
75°	2323
80°	2078
85°	2087



TEST NUMBER: P583598

CATALOG NUMBER: HC807D010-HM80520835-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	7.6
10°-20°	184.1	21.2
20°-30°	255.0	29.4
30°-40°	153.2	17.7
40°-50°	83.8	9.7
50°-60°	59.5	6.9
60°-70°	38.7	4.5
70°-80°	20.7	2.4
80°-90°	6.2	0.7
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°	505.0	58.2
0°-40°	658.1	75.9
0°-60°	801.5	92.4
0°-90°	867.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	867.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	701	
5°	696	66
15°	654	184
25°	569	255
35°	218	153
45°	108	84
55°	66	60
65°	39	39
75°	20	21
85°	6	6
90°	0	



TEST NUMBER: P583598

CATALOG NUMBER: HC807D010-HM80520835-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	700.9
2.5°	699.6
5°	696.3
7.5°	688.6
10°	677.0
12.5°	666.0
15°	654.3
17.5°	639.3
20°	621.2
22.5°	599.2
25°	568.7
27.5°	520.8
30°	448.2
32.5°	328.4
35°	218.3
37.5°	161.3
40°	136.7
42.5°	121.2
45°	108.1
47.5°	95.8
50°	84.8
52.5°	74.4
55°	66.1
57.5°	58.3
60°	51.1
62.5°	44.7
65°	38.8
67.5°	33.0
70°	28.6
72.5°	23.3
75°	19.5
77.5°	15.5
80°	11.7
82.5°	8.4
85°	5.9
87.5°	2.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)