

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: P583615

Luminaire Tested: **HC807D010-HM80520840-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583615
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-HM80520840-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 931.6 lumens
Efficiency: N/A
Efficacy: 116.4 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

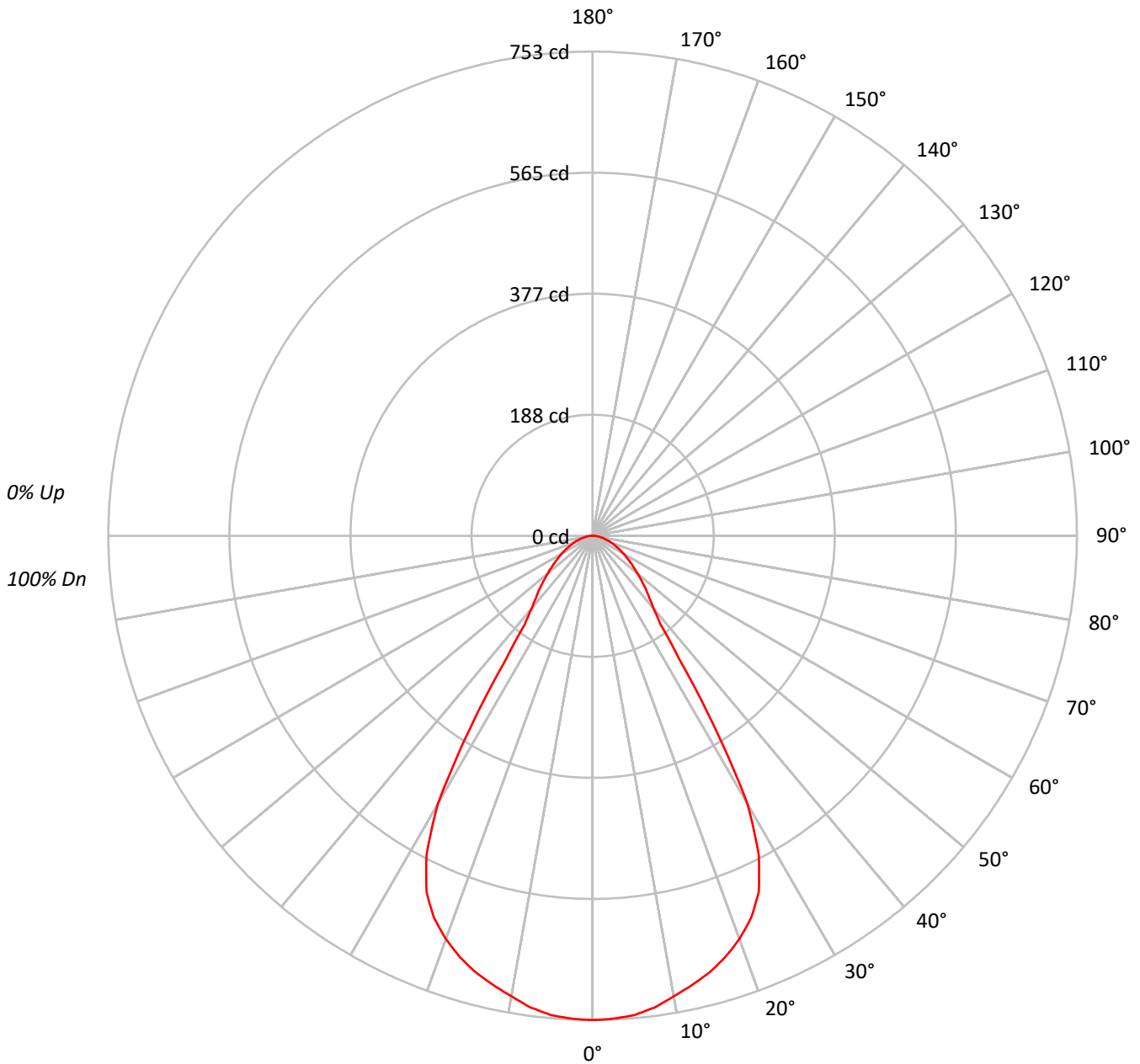
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583615

CATALOG NUMBER: HC807D010-HM80520840-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P583615

CATALOG NUMBER: HC807D010-HM80520840-81NDW

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°	23223
5°	23160
10°	22773
15°	22439
20°	21901
25°	20789
30°	17148
35°	8831
40°	5913
45°	5072
50°	4375
55°	3817
60°	3392
65°	3043
70°	2759
75°	2490
80°	2220
85°	2194



TEST NUMBER: P583615

CATALOG NUMBER: HC807D010-HM80520840-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	7.6
10°-20°	197.8	21.2
20°-30°	274.0	29.4
30°-40°	164.6	17.7
40°-50°	90.1	9.7
50°-60°	64.0	6.9
60°-70°	41.5	4.5
70°-80°	22.2	2.4
80°-90°	6.6	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°	542.5	58.2
0°-40°	707.1	75.9
0°-60°	861.2	92.4
0°-90°	931.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	931.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	753	
5°	748	71
15°	703	198
25°	611	274
35°	235	165
45°	116	90
55°	71	64
65°	42	42
75°	21	22
85°	6	7
90°	0	



TEST NUMBER: P583615

CATALOG NUMBER: HC807D010-HM80520840-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	753.1
2.5°	751.7
5°	748.2
7.5°	739.8
10°	727.3
12.5°	715.4
15°	702.9
17.5°	686.9
20°	667.4
22.5°	643.7
25°	611.0
27.5°	559.5
30°	481.6
32.5°	352.9
35°	234.6
37.5°	173.3
40°	146.9
42.5°	130.1
45°	116.3
47.5°	103.0
50°	91.2
52.5°	80.1
55°	71.0
57.5°	62.6
60°	55.0
62.5°	48.0
65°	41.7
67.5°	35.5
70°	30.6
72.5°	25.1
75°	20.9
77.5°	16.7
80°	12.5
82.5°	9.1
85°	6.2
87.5°	2.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)