

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: P583633

Luminaire Tested: **HC807D010-HM80520927-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520927-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 755.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

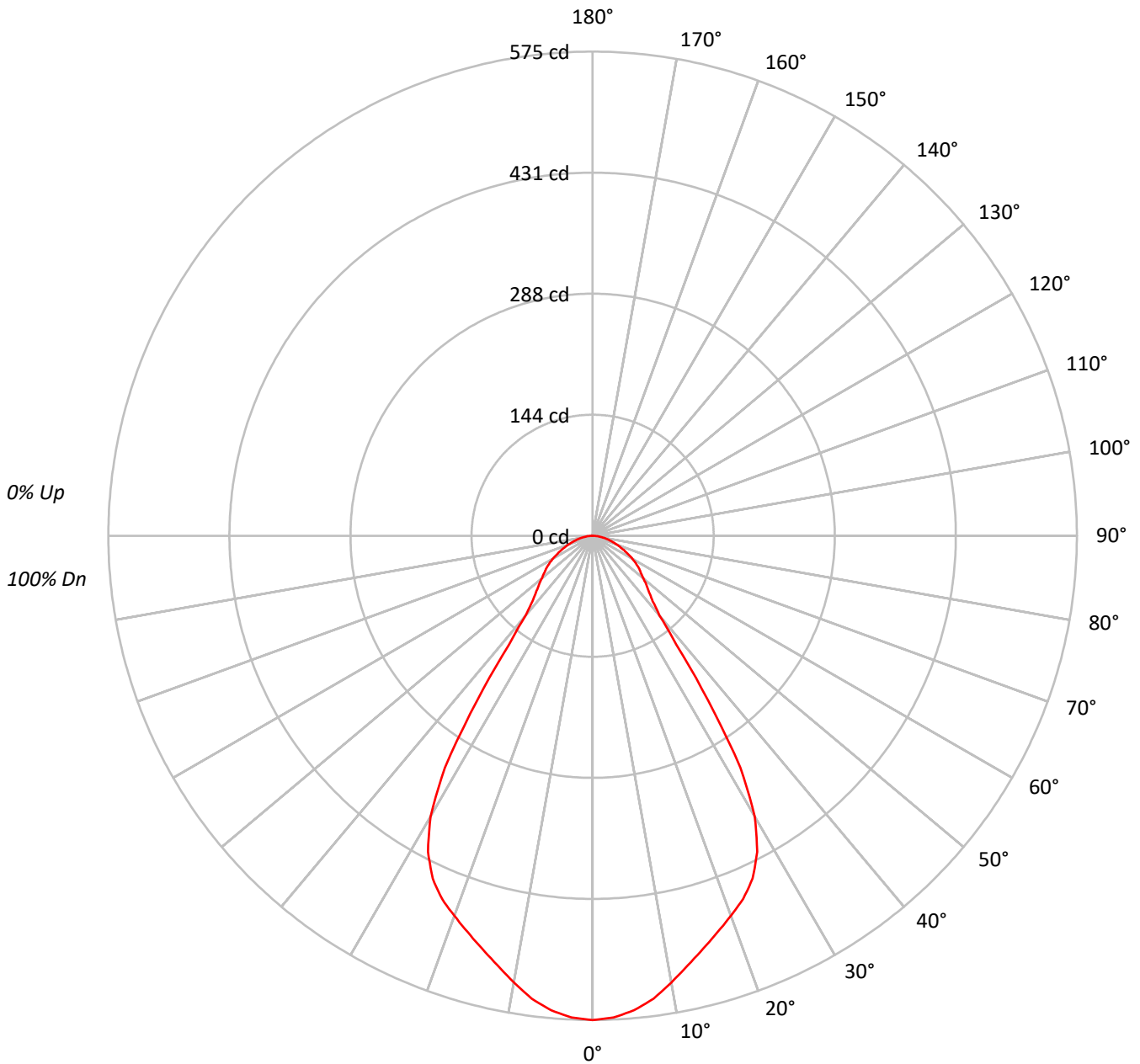
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17737
5°	17508
10°	16865
15°	16205
20°	15758
25°	15284
30°	13712
35°	8989
40°	4967
45°	4143
50°	3780
55°	3602
60°	3355
65°	3043
70°	2750
75°	2478
80°	2255
85°	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	7.0
10°-20°	143.2	19.0
20°-30°	203.8	27.0
30°-40°	150.8	20.0
40°-50°	74.7	9.9
50°-60°	59.6	7.9
60°-70°	41.4	5.5
70°-80°	22.3	3.0
80°-90°	6.6	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°	400.2	53.0
0°-40°	551.0	72.9
0°-60°	685.3	90.7
0°-90°	755.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	575	
5°	566	53
15°	508	143
25°	449	204
35°	239	151
45°	95	75
55°	67	60
65°	42	41
75°	21	22
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	575.2
2.5°	572.6
5°	565.6
7.5°	554.4
10°	538.6
12.5°	522.3
15°	507.6
17.5°	493.4
20°	480.2
22.5°	467.0
25°	449.2
27.5°	423.3
30°	385.1
32.5°	326.7
35°	238.8
37.5°	163.1
40°	123.4
42.5°	105.6
45°	95.0
47.5°	86.4
50°	78.8
52.5°	72.2
55°	67.0
57.5°	60.9
60°	54.4
62.5°	47.8
65°	41.7
67.5°	35.6
70°	30.5
72.5°	25.5
75°	20.8
77.5°	16.7
80°	12.7
82.5°	9.2
85°	6.1
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)