

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: P581490

Luminaire Tested: **HC407D010-HM40525927-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525927-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 638.7 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

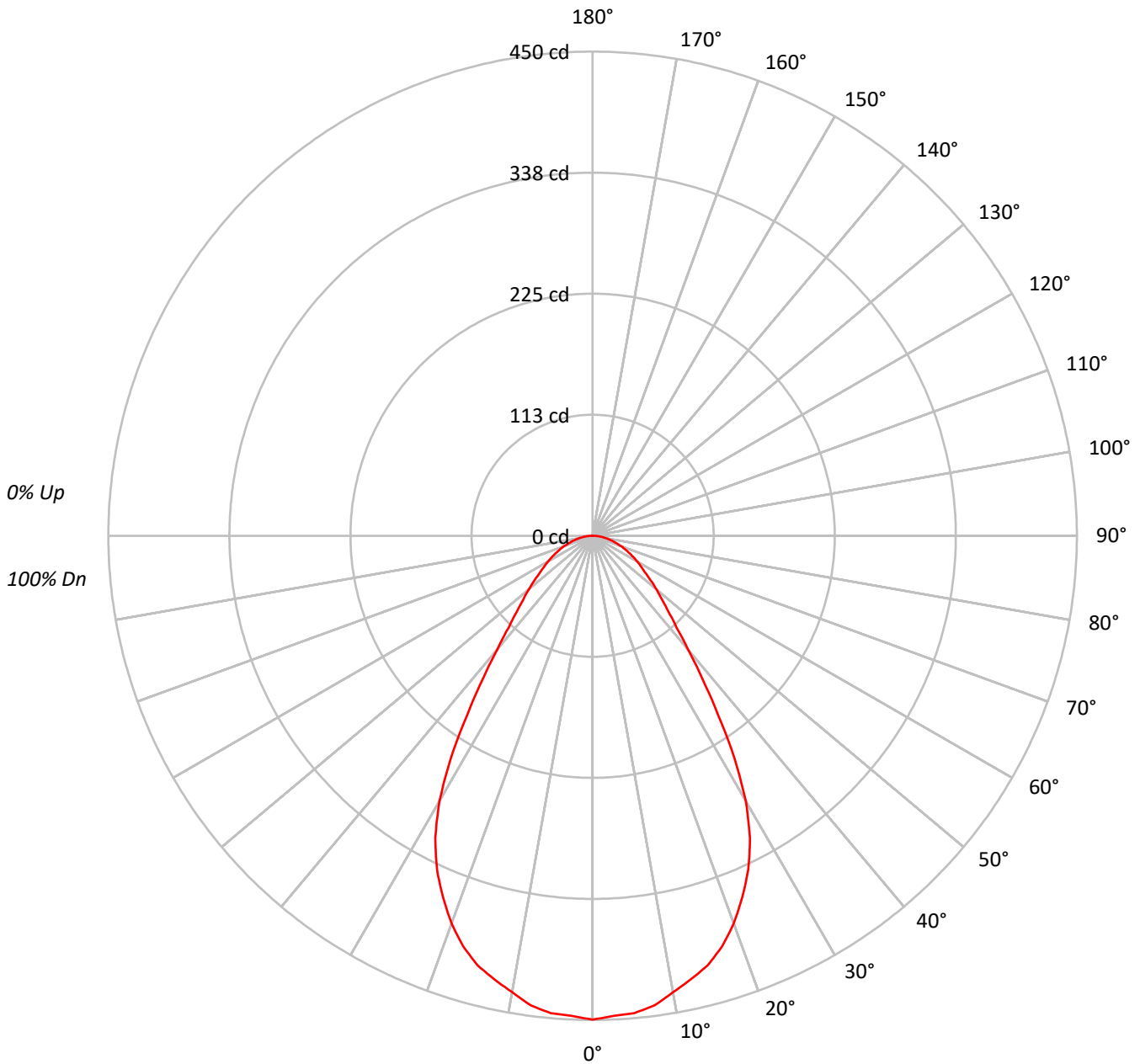
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55469
5°	55136
10°	53957
15°	52764
20°	50326
25°	46586
30°	40521
35°	30597
40°	22172
45°	17322
50°	14833
55°	12817
60°	11817
65°	10799
70°	10098
75°	9293
80°	8666
85°	8350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	6.6
10°-20°	115.7	18.1
20°-30°	155.6	24.4
30°-40°	128.0	20.0
40°-50°	78.6	12.3
50°-60°	54.4	8.5
60°-70°	37.1	5.8
70°-80°	20.7	3.2
80°-90°	6.6	1.0
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°	313.4	49.1
0°-40°	441.4	69.1
0°-60°	574.4	89.9
0°-90°	638.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	638.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	450	
5°	445	42
15°	413	116
25°	342	156
35°	203	128
45°	99	79
55°	60	54
65°	37	37
75°	20	21
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	449.7
2.5°	446.6
5°	445.3
7.5°	440.3
10°	430.8
12.5°	422.2
15°	413.2
17.5°	400.1
20°	383.4
22.5°	363.5
25°	342.3
27.5°	316.6
30°	284.5
32.5°	245.2
35°	203.2
37.5°	167.1
40°	137.7
42.5°	115.2
45°	99.3
47.5°	87.2
50°	77.3
52.5°	68.2
55°	59.6
57.5°	53.3
60°	47.9
62.5°	42.4
65°	37.0
67.5°	32.5
70°	28.0
72.5°	23.4
75°	19.5
77.5°	15.4
80°	12.2
82.5°	9.0
85°	5.9
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)