

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: P592577

Luminaire Tested: **HC407D010-HM40525850-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592577
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-HM40525850-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 861.2 lumens
Efficiency: N/A
Efficacy: 107.7 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

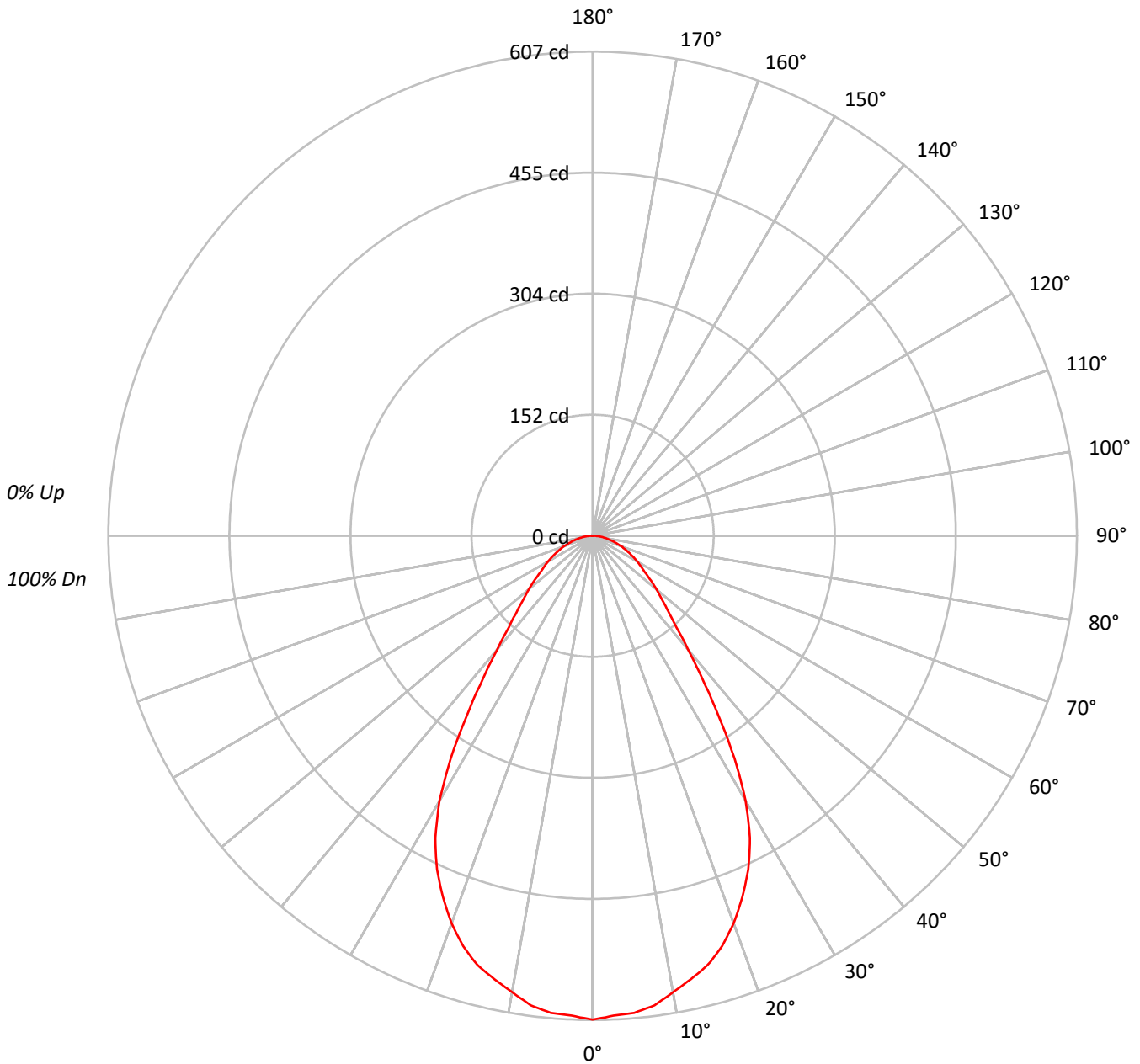
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	74821
5°	74340
10°	72757
15°	71153
20°	67862
25°	62822
30°	54635
35°	41258
40°	29901
45°	23357
50°	19976
55°	17268
60°	15912
65°	14593
70°	13632
75°	12486
80°	11649
85°	11322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	6.6
10°-20°	156.1	18.1
20°-30°	209.9	24.4
30°-40°	172.6	20.0
40°-50°	106.0	12.3
50°-60°	73.3	8.5
60°-70°	50.0	5.8
70°-80°	27.8	3.2
80°-90°	8.9	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°	422.7	49.1
0°-40°	595.2	69.1
0°-60°	774.5	89.9
0°-90°	861.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	607	
5°	600	57
15°	557	156
25°	462	210
35°	274	173
45°	134	106
55°	80	73
65°	50	50
75°	26	28
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	606.6
2.5°	602.2
5°	600.4
7.5°	593.7
10°	580.9
12.5°	569.3
15°	557.2
17.5°	539.5
20°	517.0
22.5°	490.3
25°	461.6
27.5°	426.9
30°	383.6
32.5°	330.7
35°	274.0
37.5°	225.3
40°	185.7
42.5°	155.3
45°	133.9
47.5°	117.6
50°	104.1
52.5°	92.0
55°	80.3
57.5°	71.8
60°	64.5
62.5°	57.2
65°	50.0
67.5°	43.8
70°	37.8
72.5°	31.6
75°	26.2
77.5°	20.7
80°	16.4
82.5°	12.2
85°	8.0
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)