

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: P581508

Luminaire Tested: **HC407D010-HM40525930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581508
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-HM40525930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 710.6 lumens
Efficiency: N/A
Efficacy: 88.8 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

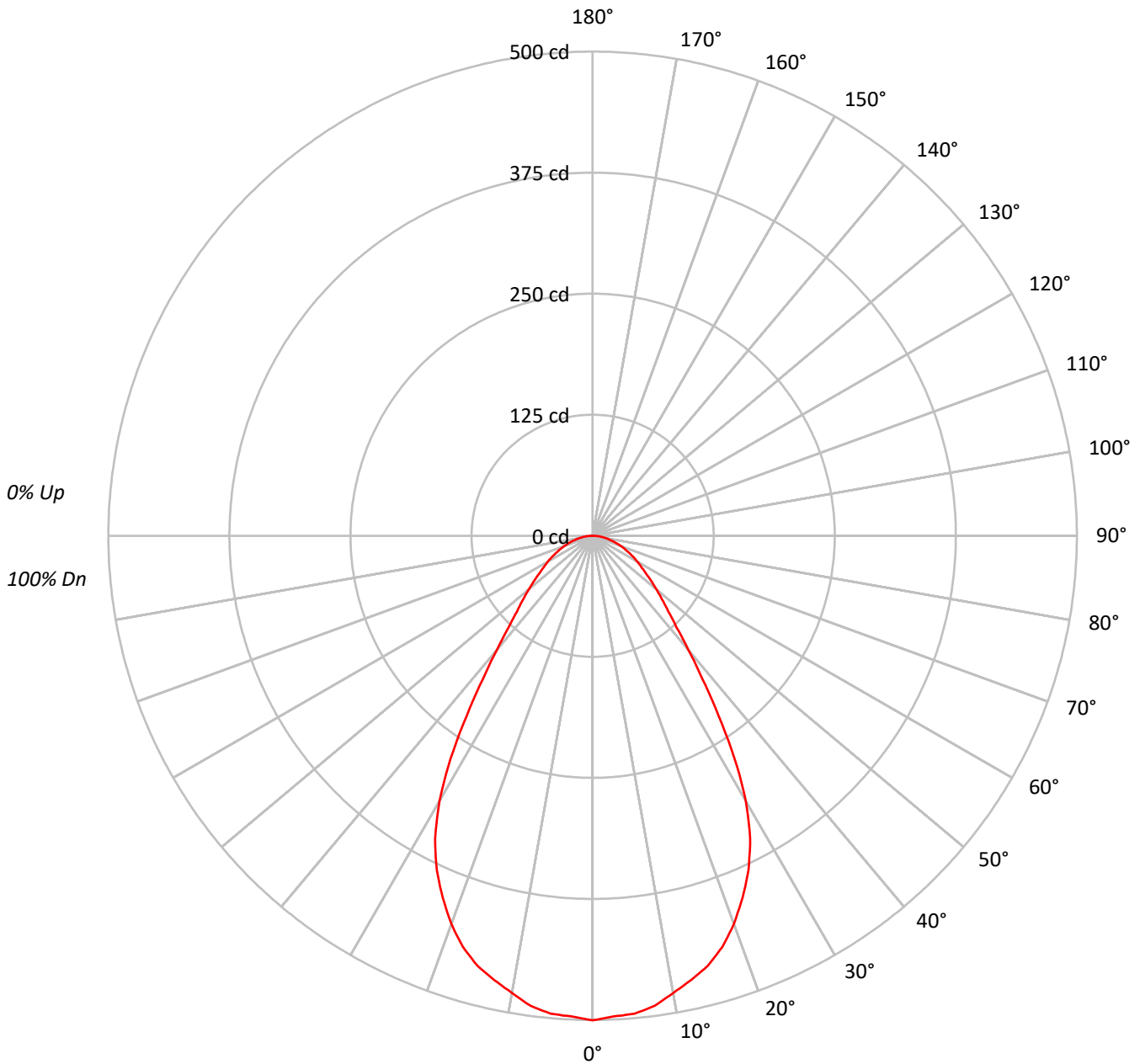
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	92	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°	61722
5°	61339
10°	60032
15°	58715
20°	55983
25°	51826
30°	45078
35°	34046
40°	24684
45°	19275
50°	16483
55°	14258
60°	13149
65°	12025
70°	11252
75°	10294
80°	9589
85°	9199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	6.6
10°-20°	128.8	18.1
20°-30°	173.1	24.4
30°-40°	142.4	20.0
40°-50°	87.4	12.3
50°-60°	60.5	8.5
60°-70°	41.3	5.8
70°-80°	23.0	3.2
80°-90°	7.3	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°	348.7	49.1
0°-40°	491.1	69.1
0°-60°	639.0	89.9
0°-90°	710.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	500	
5°	495	47
15°	460	129
25°	381	173
35°	226	142
45°	110	87
55°	66	61
65°	41	41
75°	22	23
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	500.4
2.5°	496.9
5°	495.4
7.5°	489.8
10°	479.3
12.5°	469.8
15°	459.8
17.5°	445.2
20°	426.5
22.5°	404.4
25°	380.8
27.5°	352.2
30°	316.5
32.5°	272.8
35°	226.1
37.5°	185.8
40°	153.3
42.5°	128.1
45°	110.5
47.5°	97.0
50°	85.9
52.5°	75.9
55°	66.3
57.5°	59.3
60°	53.3
62.5°	47.2
65°	41.2
67.5°	36.2
70°	31.2
72.5°	26.2
75°	21.6
77.5°	17.1
80°	13.5
82.5°	10.0
85°	6.5
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)