

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: P581269

Luminaire Tested: **HC460D010-HM44560827-41MDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560827-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4742.7 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

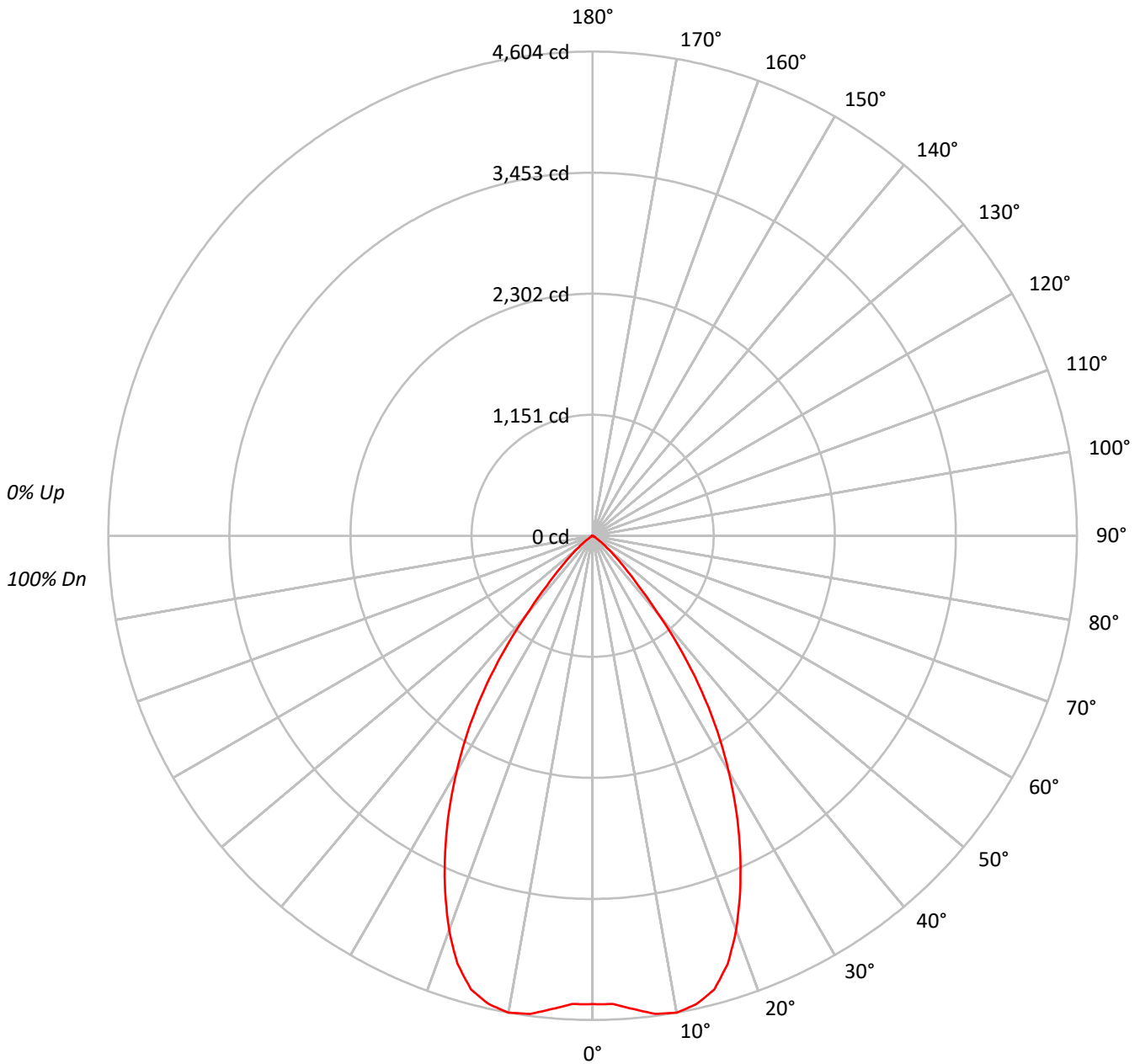
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74			
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52			
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	549357
5°	559454
10°	576706
15°	570307
20°	523695
25°	451787
30°	368174
35°	272605
40°	156395
45°	75601
50°	35980
55°	12559
60°	4539
65°	2685
70°	2200
75°	1430
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.6	9.2
10°-20°	1238.1	26.1
20°-30°	1512.0	31.9
30°-40°	1111.5	23.4
40°-50°	368.4	7.8
50°-60°	65.1	1.4
60°-70°	9.8	0.2
70°-80°	3.2	0.1
80°-90°	0.0	0.0
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°	3184.7	67.1
0°-40°	4296.3	90.6
0°-60°	4729.7	99.7
0°-90°	4742.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4454	
5°	4518	435
15°	4466	1238
25°	3320	1512
35°	1810	1112
45°	433	368
55°	58	65
65°	9	10
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4453.8
2.5°	4457.0
5°	4518.4
7.5°	4586.0
10°	4604.5
12.5°	4561.4
15°	4466.1
17.5°	4269.4
20°	3989.7
22.5°	3663.9
25°	3319.6
27.5°	2960.0
30°	2585.0
32.5°	2210.0
35°	1810.4
37.5°	1404.7
40°	971.3
42.5°	642.4
45°	433.4
47.5°	288.9
50°	187.5
52.5°	110.7
55°	58.4
57.5°	24.6
60°	18.4
62.5°	12.3
65°	9.2
67.5°	6.1
70°	6.1
72.5°	3.0
75°	3.0
77.5°	3.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)