

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: P580675

Luminaire Tested: **HC440D010-HM43040940-41MDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580675
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: HC440D010-HM43040940-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3749.9 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

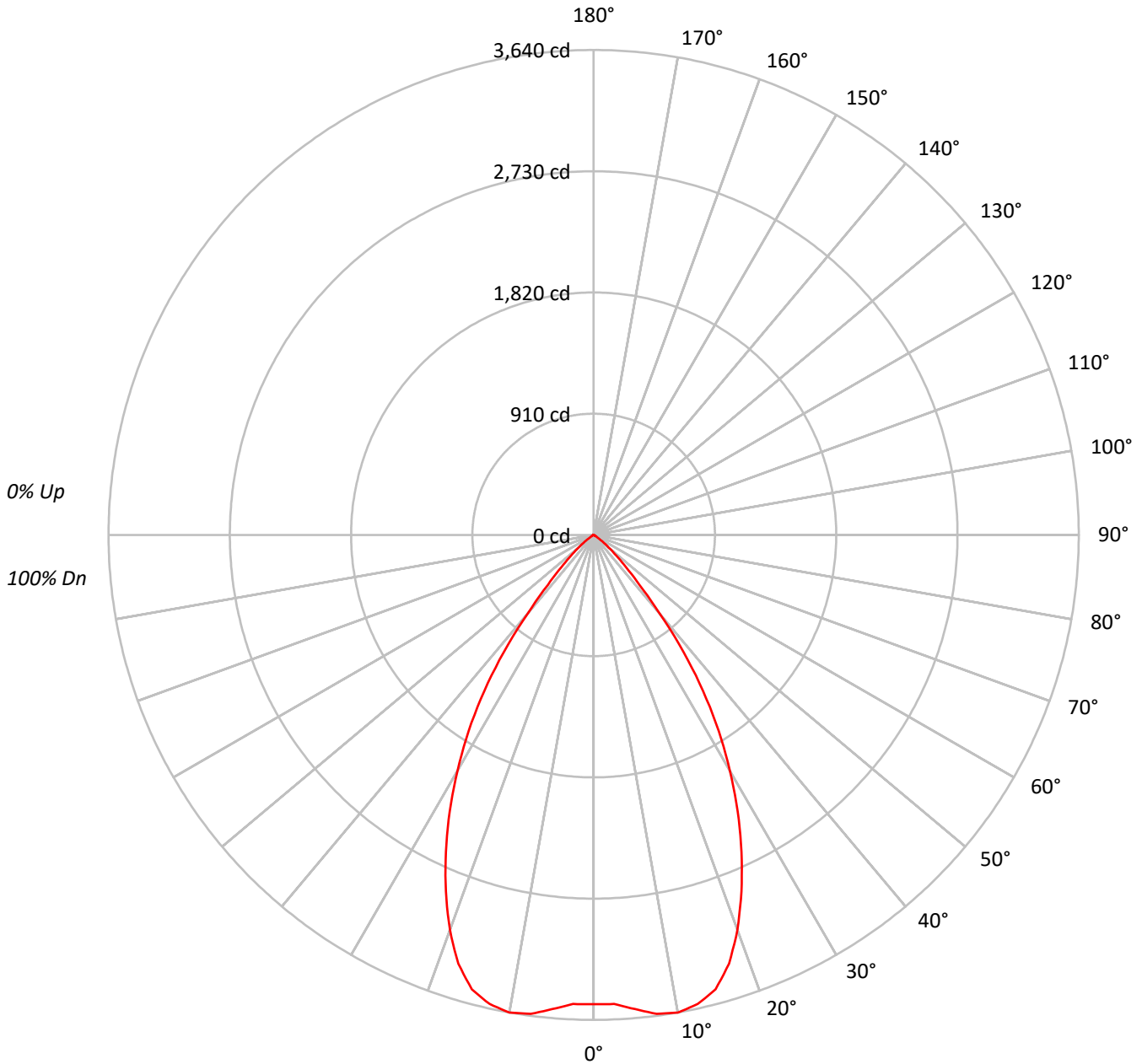
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	98	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°	434349
5°	442323
10°	455954
15°	450923
20°	414065
25°	357200
30°	291093
35°	215536
40°	123661
45°	59780
50°	28438
55°	9935
60°	3602
65°	2131
70°	1731
75°	1191
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	9.2
10°-20°	978.9	26.1
20°-30°	1195.4	31.9
30°-40°	878.8	23.4
40°-50°	291.3	7.8
50°-60°	51.4	1.4
60°-70°	7.8	0.2
70°-80°	2.6	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°	2518.0	67.1
0°-40°	3396.8	90.6
0°-60°	3739.5	99.7
0°-90°	3749.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3749.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3521	
5°	3572	344
15°	3531	979
25°	2625	1195
35°	1431	879
45°	343	291
55°	46	51
65°	7	8
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3521.4
2.5°	3523.9
5°	3572.4
7.5°	3625.9
10°	3640.4
12.5°	3606.5
15°	3531.2
17.5°	3375.6
20°	3154.5
22.5°	2896.9
25°	2624.6
27.5°	2340.3
30°	2043.8
32.5°	1747.3
35°	1431.4
37.5°	1110.6
40°	768.0
42.5°	507.9
45°	342.7
47.5°	228.5
50°	148.2
52.5°	87.4
55°	46.2
57.5°	19.4
60°	14.6
62.5°	9.8
65°	7.3
67.5°	4.8
70°	4.8
72.5°	2.5
75°	2.5
77.5°	2.5
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)