

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: P580852

Luminaire Tested: **HC450D010-HM44560830-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560830-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4341.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

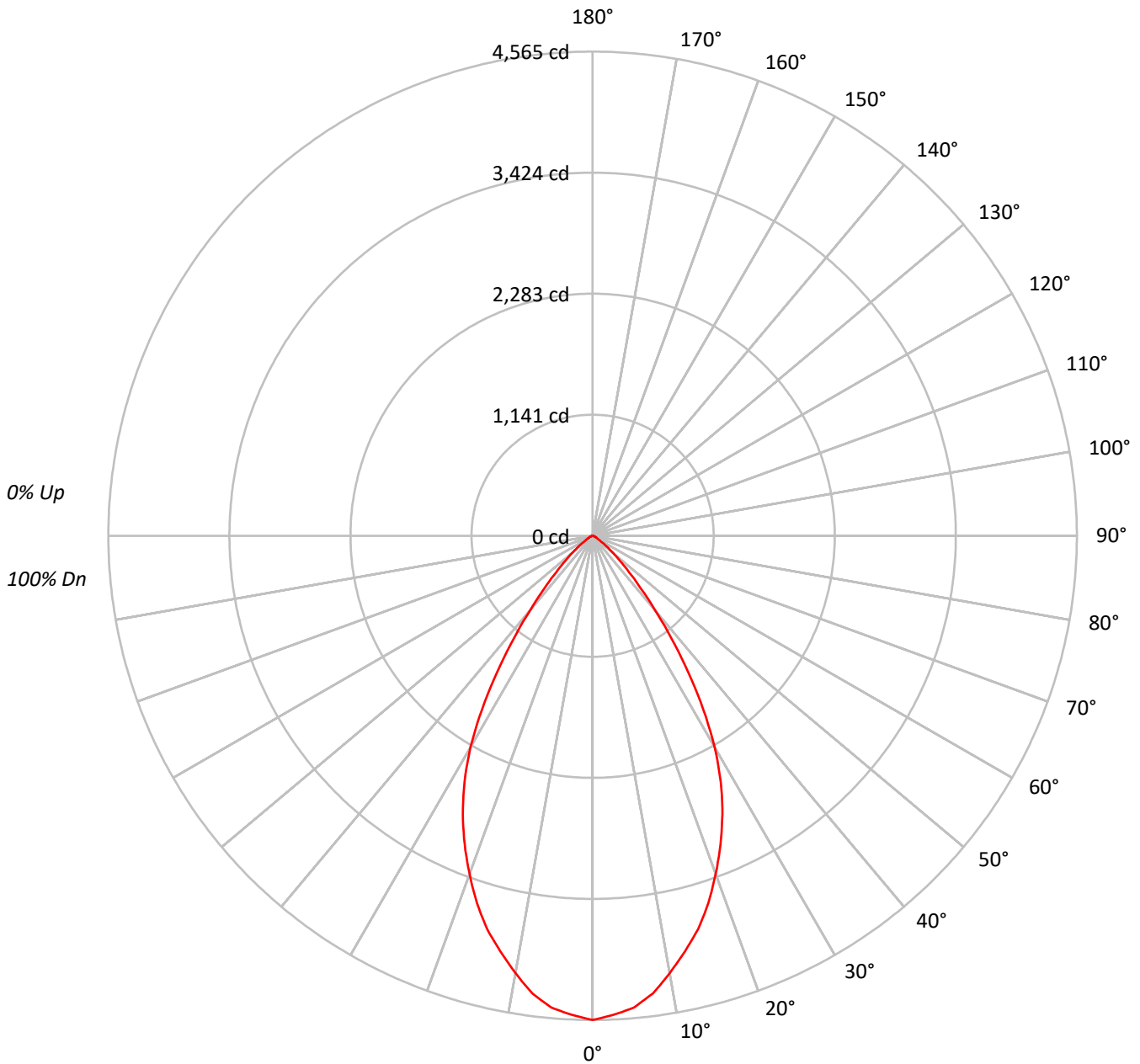
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																											
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86																											
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79																											
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73																											
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																											
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63																											
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																											
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54																											
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51																											
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	563060
5°	552830
10°	524365
15°	490292
20°	445292
25°	394028
30°	327754
35°	236346
40°	147523
45°	85073
50°	48011
55°	22859
60°	13099
65°	10040
70°	6744
75°	4480
80°	4404
85°	4387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.3	9.6
10°-20°	1071.1	24.7
20°-30°	1317.3	30.3
30°-40°	978.4	22.5
40°-50°	397.7	9.2
50°-60°	110.1	2.5
60°-70°	34.3	0.8
70°-80°	11.5	0.3
80°-90°	3.4	0.1
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°	2805.7	64.6
0°-40°	3784.1	87.2
0°-60°	4291.9	98.9
0°-90°	4341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4341.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4565	
5°	4465	417
15°	3840	1071
25°	2895	1317
35°	1570	978
45°	488	398
55°	106	110
65°	34	34
75°	9	11
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4564.9
2.5°	4521.1
5°	4464.9
7.5°	4352.3
10°	4186.6
12.5°	4014.6
15°	3839.5
17.5°	3630.1
20°	3392.4
22.5°	3151.6
25°	2895.2
27.5°	2617.1
30°	2301.2
32.5°	1941.7
35°	1569.6
37.5°	1219.4
40°	916.2
42.5°	669.1
45°	487.7
47.5°	350.1
50°	250.2
52.5°	171.9
55°	106.3
57.5°	68.7
60°	53.1
62.5°	43.7
65°	34.4
67.5°	25.0
70°	18.7
72.5°	15.6
75°	9.4
77.5°	6.2
80°	6.2
82.5°	3.1
85°	3.1
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)