

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: P580887

Luminaire Tested: **HC450D010-HM44560840-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560840-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5269.3 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

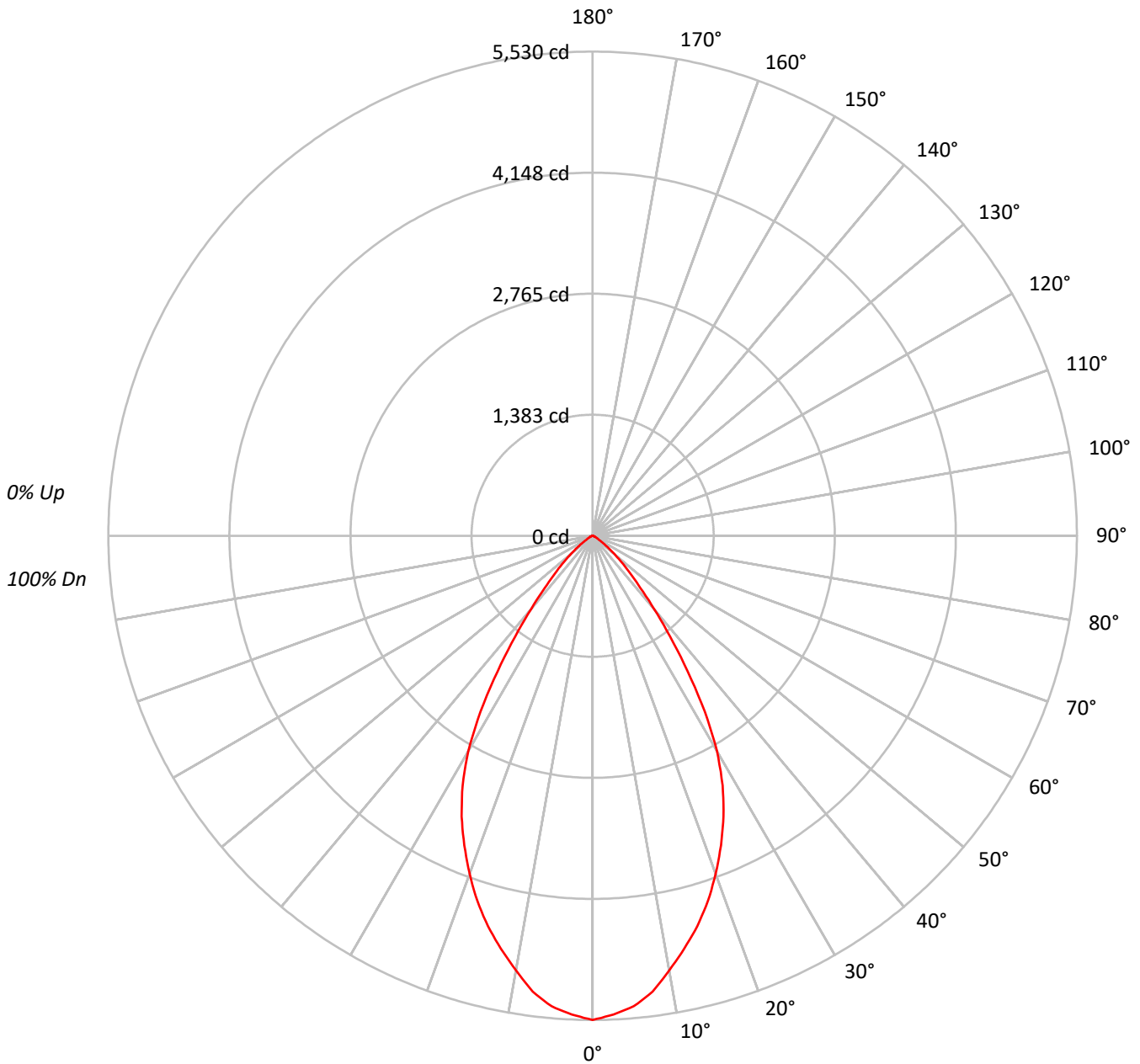
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580887

CATALOG NUMBER: HC450D010-HM44560840-41MDH

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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	682163
5°	667905
10°	631189
15°	589512
20°	539157
25°	481456
30°	404308
35°	284425
40°	175443
45°	105046
50°	61904
55°	30838
60°	15912
65°	10478
70°	6455
75°	5099
80°	2486
85°	4953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.7	9.6
10°-20°	1290.5	24.5
20°-30°	1609.3	30.5
30°-40°	1185.4	22.5
40°-50°	487.5	9.3
50°-60°	142.4	2.7
60°-70°	36.6	0.7
70°-80°	11.3	0.2
80°-90°	2.4	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°	3403.5	64.6
0°-40°	4589.0	87.1
0°-60°	5218.9	99.0
0°-90°	5269.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5269.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5530	
5°	5394	504
15°	4616	1290
25°	3538	1609
35°	1889	1185
45°	602	488
55°	143	142
65°	36	37
75°	11	11
85°	4	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5530.5
2.5°	5473.1
5°	5394.3
7.5°	5250.9
10°	5039.5
12.5°	4831.6
15°	4616.5
17.5°	4376.4
20°	4107.5
22.5°	3828.0
25°	3537.6
27.5°	3215.1
30°	2838.7
32.5°	2383.5
35°	1888.9
37.5°	1451.6
40°	1089.6
42.5°	806.4
45°	602.2
47.5°	444.5
50°	322.6
52.5°	222.2
55°	143.4
57.5°	86.0
60°	64.5
62.5°	46.6
65°	35.9
67.5°	25.1
70°	17.9
72.5°	14.4
75°	10.7
77.5°	7.2
80°	3.5
82.5°	3.5
85°	3.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)