

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: P581144

Luminaire Tested: **HC455D010-HM44560830-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560830-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4852.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

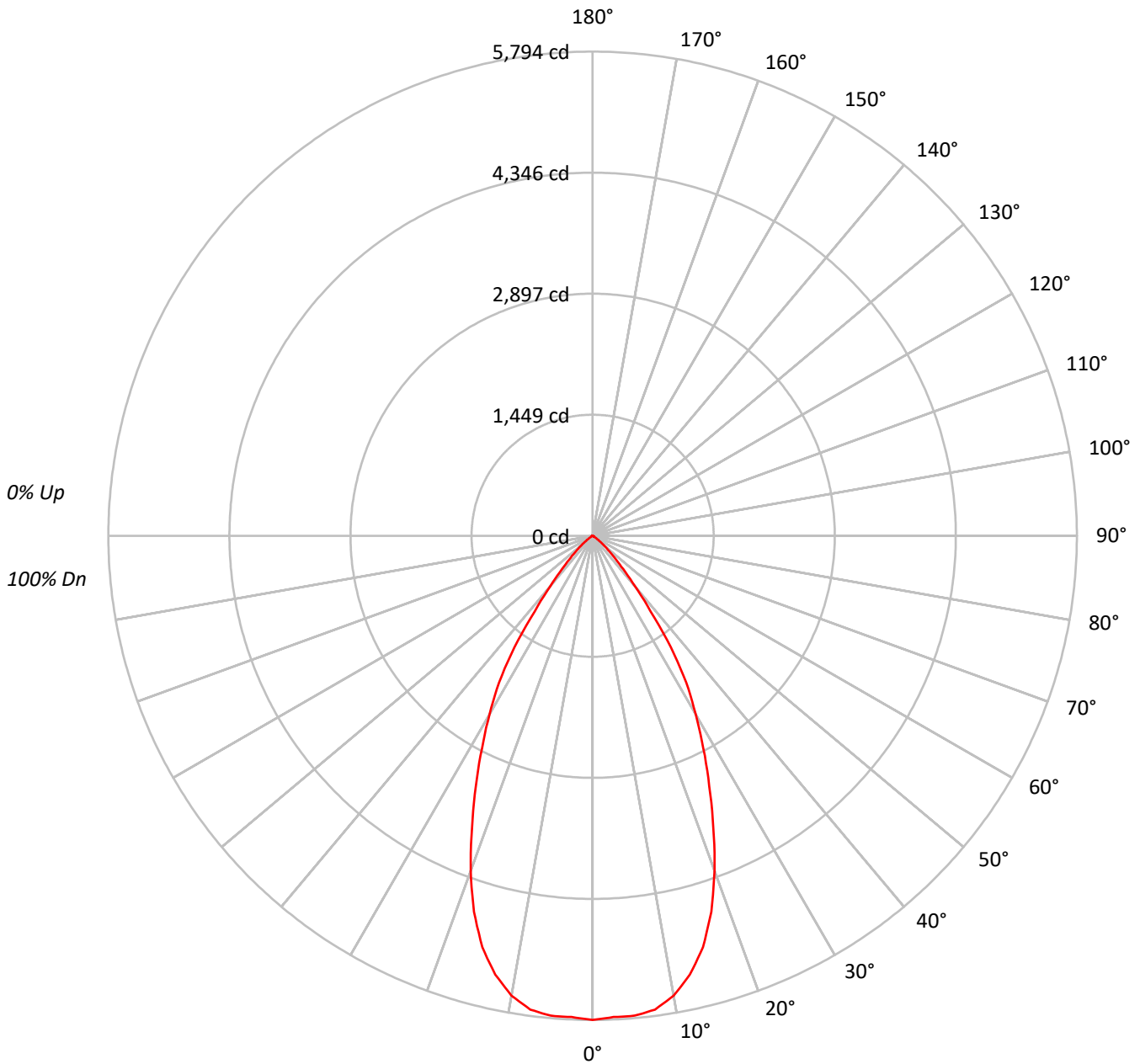
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581144

CATALOG NUMBER: HC455D010-HM44560830-41NDC

Luminous Intensity Polar Plot





TEST NUMBER: P581144

CATALOG NUMBER: HC455D010-HM44560830-41NDC

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87		
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81		
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76		
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71		
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62		
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58		
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55		
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	714689
5°	713754
10°	699851
15°	650756
20°	559647
25°	449582
30°	351012
35°	245742
40°	126108
45°	64036
50°	32084
55°	11978
60°	4860
65°	3853
70°	2344
75°	1573
80°	2344
85°	0



TEST NUMBER: P581144

CATALOG NUMBER: HC455D010-HM44560830-41NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.0	11.2
10°-20°	1406.7	29.0
20°-30°	1515.4	31.2
30°-40°	995.6	20.5
40°-50°	309.6	6.4
50°-60°	60.8	1.3
60°-70°	12.9	0.3
70°-80°	4.7	0.1
80°-90°	1.3	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°	3467.2	71.5
0°-40°	4462.8	92.0
0°-60°	4833.2	99.6
0°-90°	4852.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4852.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5794	
5°	5765	545
15°	5096	1407
25°	3303	1515
35°	1632	996
45°	367	310
55°	56	61
65°	13	13
75°	3	5
85°	0	1
90°	0	



TEST NUMBER: P581144

CATALOG NUMBER: HC455D010-HM44560830-41NDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	5794.2
2.5°	5764.6
5°	5764.6
7.5°	5718.8
10°	5587.7
12.5°	5378.0
15°	5096.1
17.5°	4719.3
20°	4263.6
22.5°	3772.1
25°	3303.4
27.5°	2867.6
30°	2464.5
32.5°	2084.3
35°	1632.0
37.5°	1137.1
40°	783.2
42.5°	540.8
45°	367.1
47.5°	249.1
50°	167.2
52.5°	104.8
55°	55.7
57.5°	23.0
60°	19.7
62.5°	16.4
65°	13.2
67.5°	9.8
70°	6.5
72.5°	6.5
75°	3.3
77.5°	3.3
80°	3.3
82.5°	3.3
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)