

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: P581157

Luminaire Tested: **HC455D010-HM44560835-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581157
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: HC455D010-HM44560835-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4845.3 lumens
Efficiency: N/A
Efficacy: 93.2 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

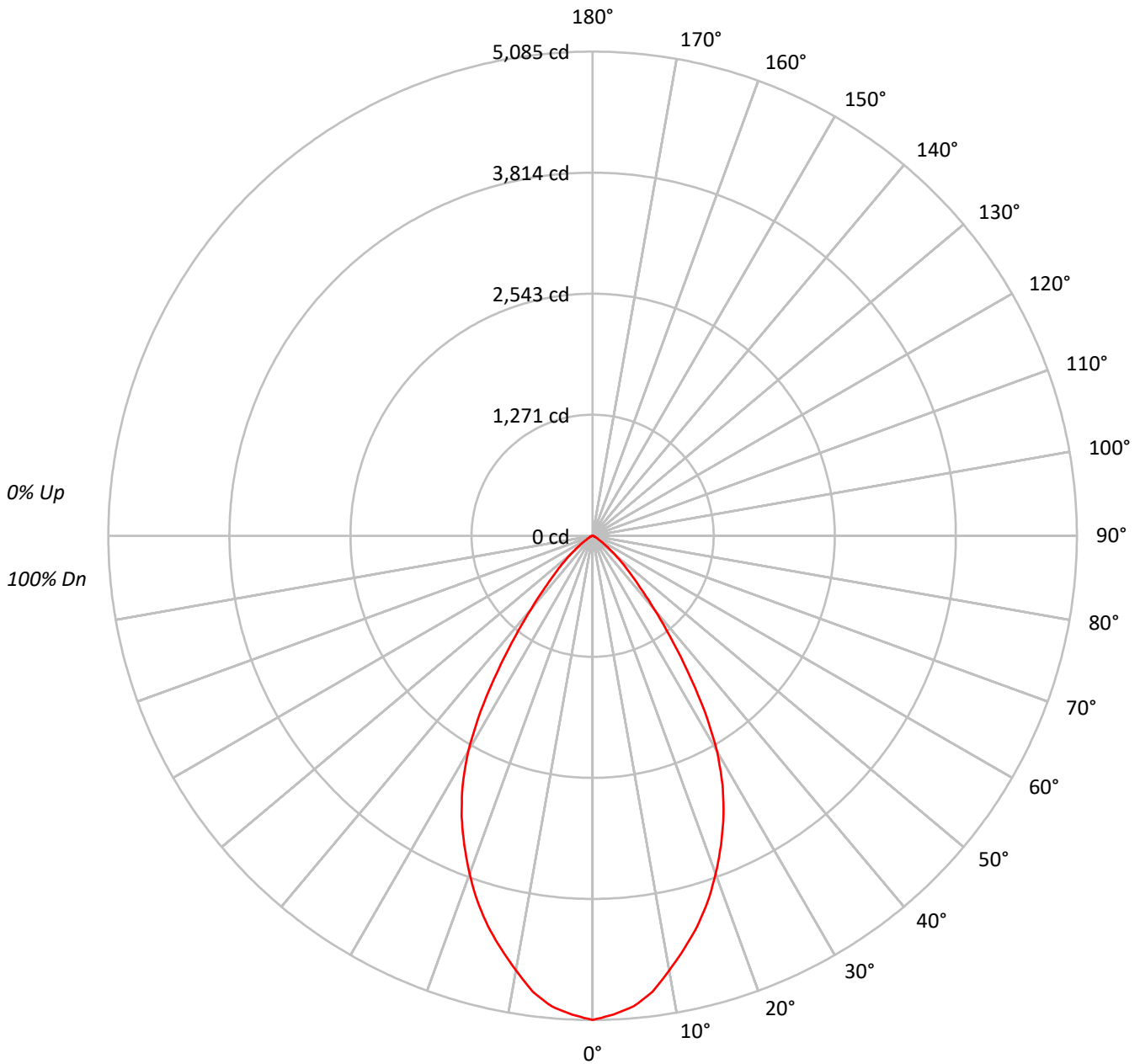
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581157

CATALOG NUMBER: HC455D010-HM44560835-41MDH

Luminous Intensity Polar Plot





TEST NUMBER: P581157

CATALOG NUMBER: HC455D010-HM44560835-41MDH

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°	627250
5°	614144
10°	580389
15°	542073
20°	495775
25°	442709
30°	371764
35°	261538
40°	161322
45°	96586
50°	56934
55°	28343
60°	14629
65°	9631
70°	5914
75°	4718
80°	2344
85°	4670



TEST NUMBER: P581157

CATALOG NUMBER: HC455D010-HM44560835-41MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.2	9.6
10°-20°	1186.6	24.5
20°-30°	1479.8	30.5
30°-40°	1090.0	22.5
40°-50°	448.3	9.3
50°-60°	131.0	2.7
60°-70°	33.7	0.7
70°-80°	10.4	0.2
80°-90°	2.2	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°	3129.6	64.6
0°-40°	4219.6	87.1
0°-60°	4798.9	99.0
0°-90°	4845.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4845.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5085	
5°	4960	463
15°	4245	1187
25°	3253	1480
35°	1737	1090
45°	554	448
55°	132	131
65°	33	34
75°	10	10
85°	3	2
90°	0	



TEST NUMBER: P581157

CATALOG NUMBER: HC455D010-HM44560835-41MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	5085.3
2.5°	5032.7
5°	4960.1
7.5°	4828.3
10°	4633.9
12.5°	4442.7
15°	4245.0
17.5°	4024.1
20°	3777.0
22.5°	3519.9
25°	3252.9
27.5°	2956.3
30°	2610.2
32.5°	2191.7
35°	1736.9
37.5°	1334.8
40°	1001.9
42.5°	741.6
45°	553.7
47.5°	408.7
50°	296.7
52.5°	204.3
55°	131.8
57.5°	79.1
60°	59.3
62.5°	42.9
65°	33.0
67.5°	23.1
70°	16.4
72.5°	13.2
75°	9.9
77.5°	6.6
80°	3.3
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)