

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: P581143

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581143
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: HC455D010-HM44560830-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

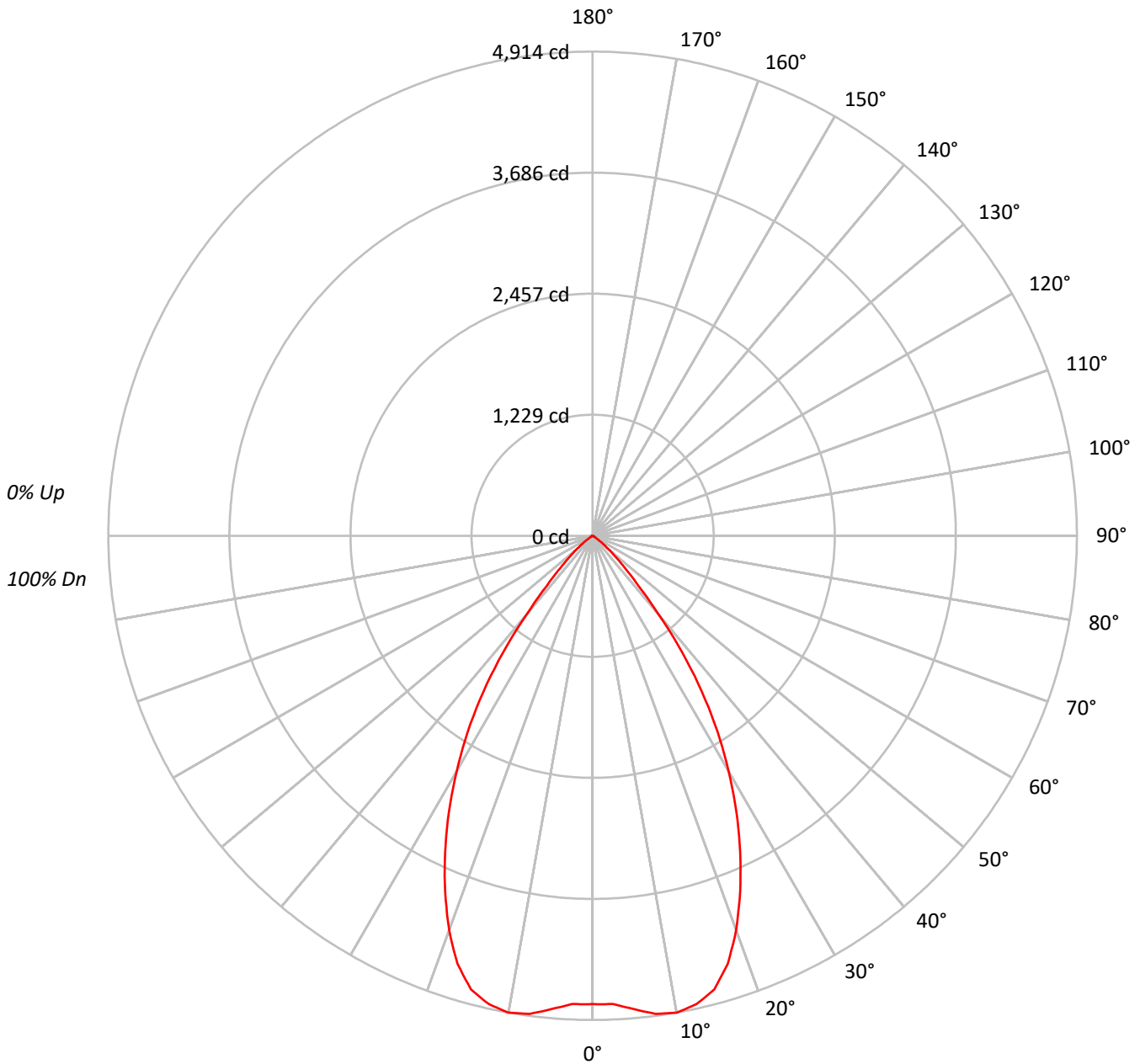
Lumens per Lamp: N/A
Luminaire Lumens: 5062.1 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P581143
CATALOG NUMBER: HC455D010-HM44560830-41MDC

Luminous Intensity Polar Plot





TEST NUMBER: P581143

CATALOG NUMBER: HC455D010-HM44560830-41MDC

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			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	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°	586336
5°	597106
10°	615508
15°	608692
20°	558938
25°	482205
30°	392957
35°	290960
40°	166926
45°	80695
50°	38398
55°	13397
60°	4860
65°	2860
70°	2344
75°	1573
80°	0
85°	0



TEST NUMBER: P581143

CATALOG NUMBER: HC455D010-HM44560830-41MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.8	9.2
10°-20°	1321.5	26.1
20°-30°	1613.8	31.9
30°-40°	1186.4	23.4
40°-50°	393.2	7.8
50°-60°	69.4	1.4
60°-70°	10.5	0.2
70°-80°	3.5	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°	3399.1	67.1
0°-40°	4585.5	90.6
0°-60°	5048.1	99.7
0°-90°	5062.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5062.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4754	
5°	4822	464
15°	4767	1321
25°	3543	1614
35°	1932	1186
45°	463	393
55°	62	69
65°	10	10
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P581143

CATALOG NUMBER: HC455D010-HM44560830-41MDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	4753.6
2.5°	4756.8
5°	4822.5
7.5°	4894.7
10°	4914.3
12.5°	4868.4
15°	4766.7
17.5°	4556.8
20°	4258.2
22.5°	3910.5
25°	3543.1
27.5°	3159.2
30°	2759.0
32.5°	2358.8
35°	1932.3
37.5°	1499.3
40°	1036.7
42.5°	685.7
45°	462.6
47.5°	308.4
50°	200.1
52.5°	118.1
55°	62.3
57.5°	26.2
60°	19.7
62.5°	13.2
65°	9.8
67.5°	6.5
70°	6.5
72.5°	3.3
75°	3.3
77.5°	3.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)