

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: P581228

Luminaire Tested: **HC455D010-HM44560935-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581228  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC455D010-HM44560935-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4669.6 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

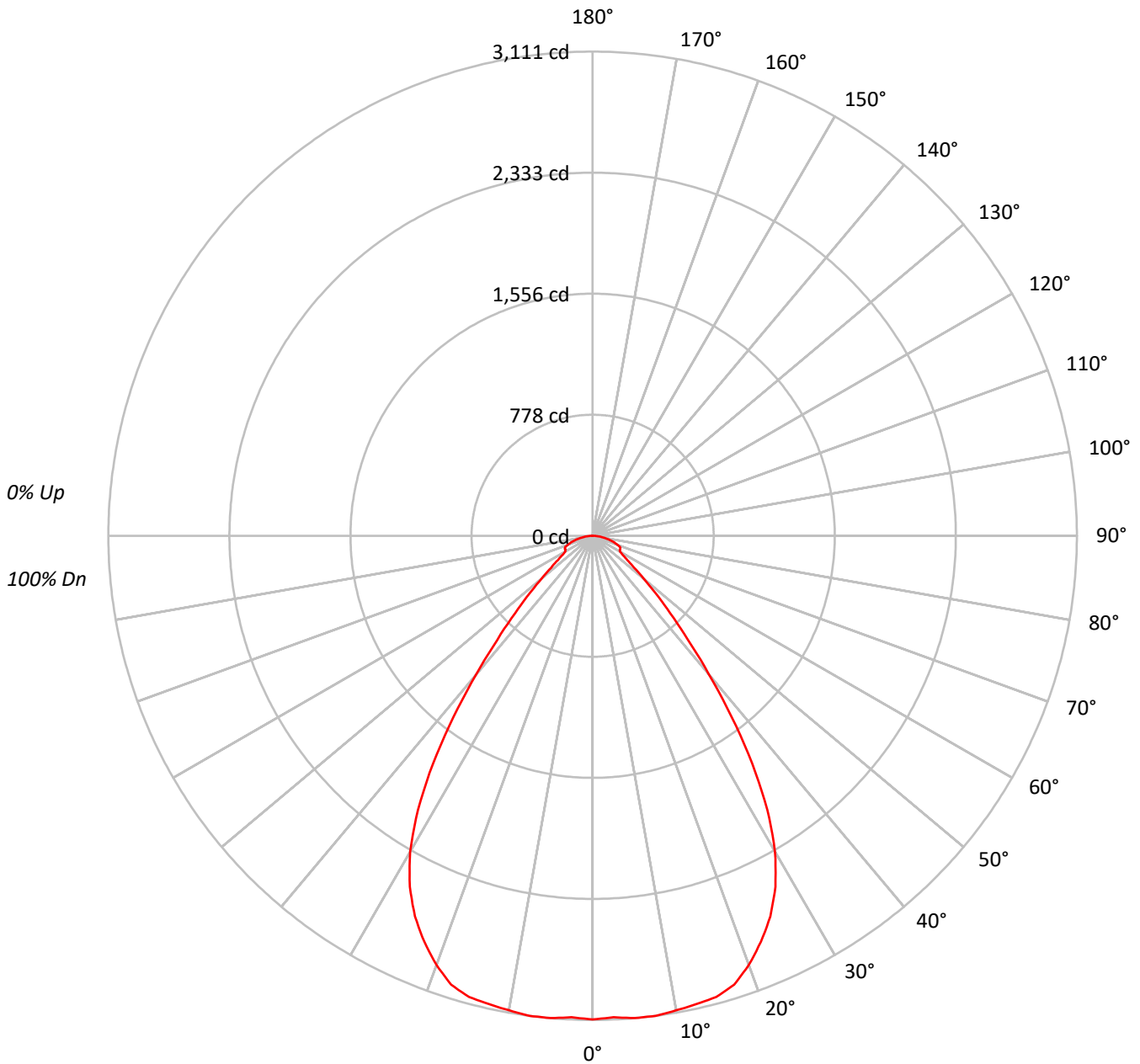
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P581228

CATALOG NUMBER: HC455D010-HM44560935-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P581228

CATALOG NUMBER: HC455D010-HM44560935-41WDWB

**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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	383346
5°	385169
10°	387807
15°	391697
20°	385161
25°	367448
30°	333835
35°	269292
40°	186843
45°	122664
50°	82187
55°	58493
60°	49980
65°	57438
70°	61597
75°	59285
80°	53487
85°	49250



TEST NUMBER: P581228

CATALOG NUMBER: HC455D010-HM44560935-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.5	6.3
10°-20°	861.7	18.5
20°-30°	1231.1	26.4
30°-40°	1099.8	23.6
40°-50°	564.1	12.1
50°-60°	256.4	5.5
60°-70°	191.3	4.1
70°-80°	130.1	2.8
80°-90°	38.6	0.8
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°	2389.3	51.2
0°-40°	3489.1	74.7
0°-60°	4309.6	92.3
0°-90°	4669.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4669.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3108	
5°	3111	296
15°	3067	862
25°	2700	1231
35°	1788	1100
45°	703	564
55°	272	256
65°	197	191
75°	124	130
85°	35	39
90°	0	



TEST NUMBER: P581228

CATALOG NUMBER: HC455D010-HM44560935-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3107.9
2.5°	3096.3
5°	3110.8
7.5°	3110.8
10°	3096.3
12.5°	3081.9
15°	3067.4
17.5°	3024.0
20°	2934.3
22.5°	2824.3
25°	2699.9
27.5°	2543.6
30°	2343.9
32.5°	2089.4
35°	1788.4
37.5°	1467.1
40°	1160.4
42.5°	905.7
45°	703.2
47.5°	549.8
50°	428.3
52.5°	335.7
55°	272.0
57.5°	228.6
60°	202.6
62.5°	196.8
65°	196.8
67.5°	191.0
70°	170.8
72.5°	147.6
75°	124.4
77.5°	98.4
80°	75.3
82.5°	55.0
85°	34.8
87.5°	14.5
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)