

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: P581147

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560830-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4511.2 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

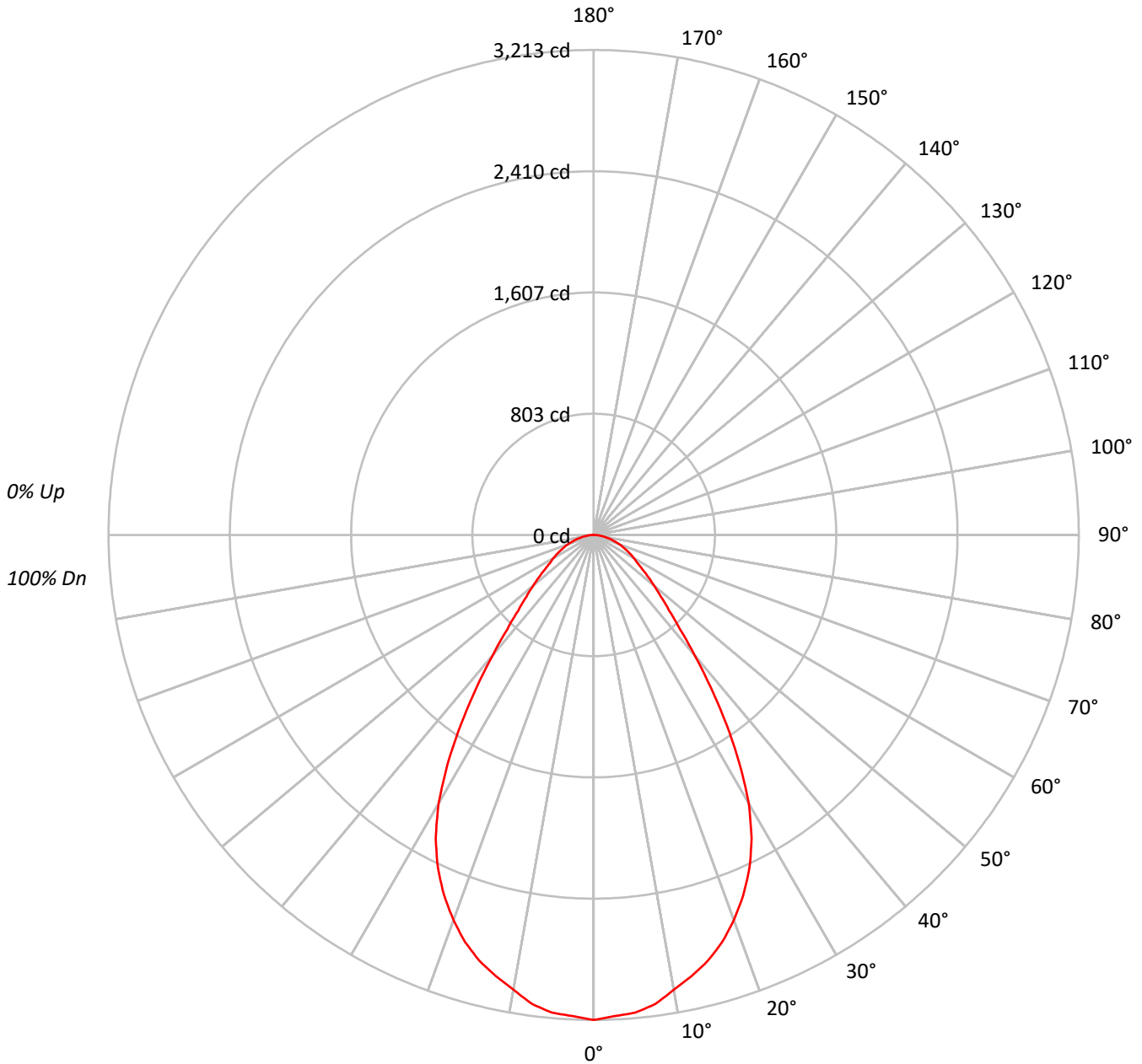
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581147

CATALOG NUMBER: HC455D010-HM44560830-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P581147

CATALOG NUMBER: HC455D010-HM44560830-41NDW

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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89	89	89	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71	71	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64	64	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58	58	58	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52	52	52	52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48	48	48	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38	38	38	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	396334
5°	393378
10°	383147
15°	373053
20°	356349
25°	332008
30°	292346
35°	230564
40°	167360
45°	122961
50°	100033
55°	83911
60°	76030
65°	69871
70°	65023
75°	59381
80°	53558
85°	46278



TEST NUMBER: P581147

CATALOG NUMBER: HC455D010-HM44560830-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	6.6
10°-20°	819.4	18.2
20°-30°	1110.8	24.6
30°-40°	953.1	21.1
40°-50°	562.8	12.5
50°-60°	356.7	7.9
60°-70°	239.6	5.3
70°-80°	132.3	2.9
80°-90°	37.0	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°	2229.7	49.4
0°-40°	3182.9	70.6
0°-60°	4102.3	90.9
0°-90°	4511.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4511.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3213	
5°	3177	300
15°	2921	819
25°	2440	1111
35°	1531	953
45°	705	563
55°	390	357
65°	239	240
75°	125	132
85°	33	37
90°	0	



TEST NUMBER: P581147

CATALOG NUMBER: HC455D010-HM44560830-41NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3213.2
2.5°	3190.3
5°	3177.1
7.5°	3134.5
10°	3059.1
12.5°	2993.5
15°	2921.4
17.5°	2829.6
20°	2714.8
22.5°	2586.9
25°	2439.5
27.5°	2265.6
30°	2052.6
32.5°	1800.1
35°	1531.2
37.5°	1272.1
40°	1039.4
42.5°	845.9
45°	704.9
47.5°	603.3
50°	521.3
52.5°	452.5
55°	390.2
57.5°	341.0
60°	308.2
62.5°	275.4
65°	239.4
67.5°	209.8
70°	180.3
72.5°	150.9
75°	124.6
77.5°	98.3
80°	75.4
82.5°	52.4
85°	32.7
87.5°	13.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)