

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: P581220

Luminaire Tested: **HC455D010-HM44560930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3930.2 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

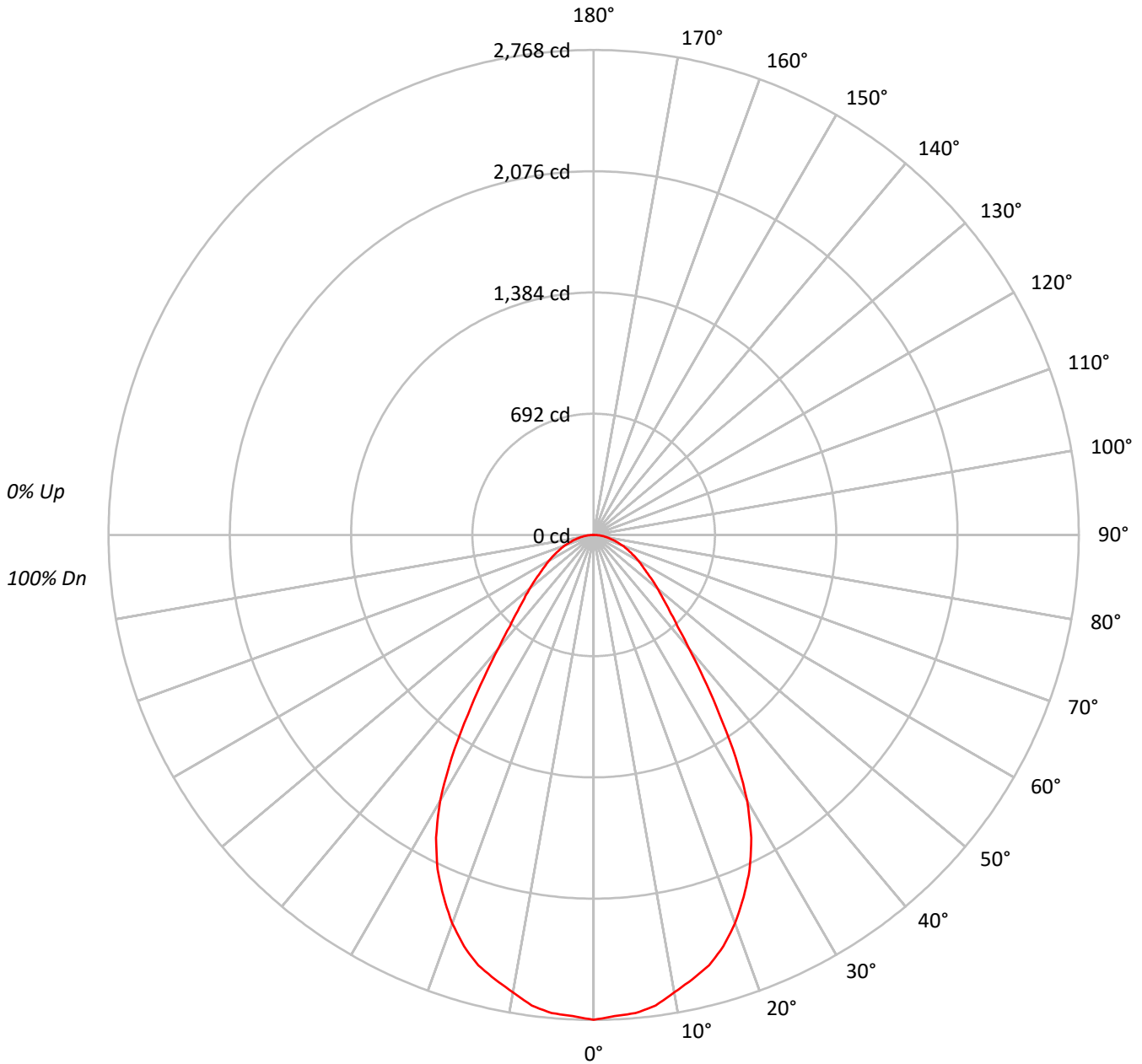
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	341371
5°	339233
10°	332034
15°	324682
20°	309659
25°	286661
30°	249333
35°	188282
40°	136477
45°	106633
50°	91187
55°	78879
60°	72651
65°	66486
70°	62102
75°	56950
80°	53274
85°	51090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	6.6
10°-20°	712.2	18.1
20°-30°	957.7	24.4
30°-40°	787.5	20.0
40°-50°	483.6	12.3
50°-60°	334.7	8.5
60°-70°	228.1	5.8
70°-80°	127.1	3.2
80°-90°	40.5	1.0
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°	1928.7	49.1
0°-40°	2716.2	69.1
0°-60°	3534.5	89.9
0°-90°	3930.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3930.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2768	
5°	2740	259
15°	2543	712
25°	2106	958
35°	1250	787
45°	611	484
55°	367	335
65°	228	228
75°	120	127
85°	36	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2767.6
2.5°	2748.2
5°	2739.8
7.5°	2709.3
10°	2651.0
12.5°	2598.2
15°	2542.6
17.5°	2462.0
20°	2359.1
22.5°	2237.0
25°	2106.3
27.5°	1947.9
30°	1750.6
32.5°	1508.9
35°	1250.4
37.5°	1028.1
40°	847.6
42.5°	708.6
45°	611.3
47.5°	536.3
50°	475.2
52.5°	419.6
55°	366.8
57.5°	327.9
60°	294.5
62.5°	261.2
65°	227.8
67.5°	200.0
70°	172.2
72.5°	144.5
75°	119.5
77.5°	94.5
80°	75.0
82.5°	55.6
85°	36.1
87.5°	19.5
90°	0.0



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— 0°-180°







(END OF REPORT)