

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: P581129

Luminaire Tested: **HC455D010-HM44560827-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581129
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-HM44560827-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4062.6 lumens
Efficiency: N/A
Efficacy: 78.1 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

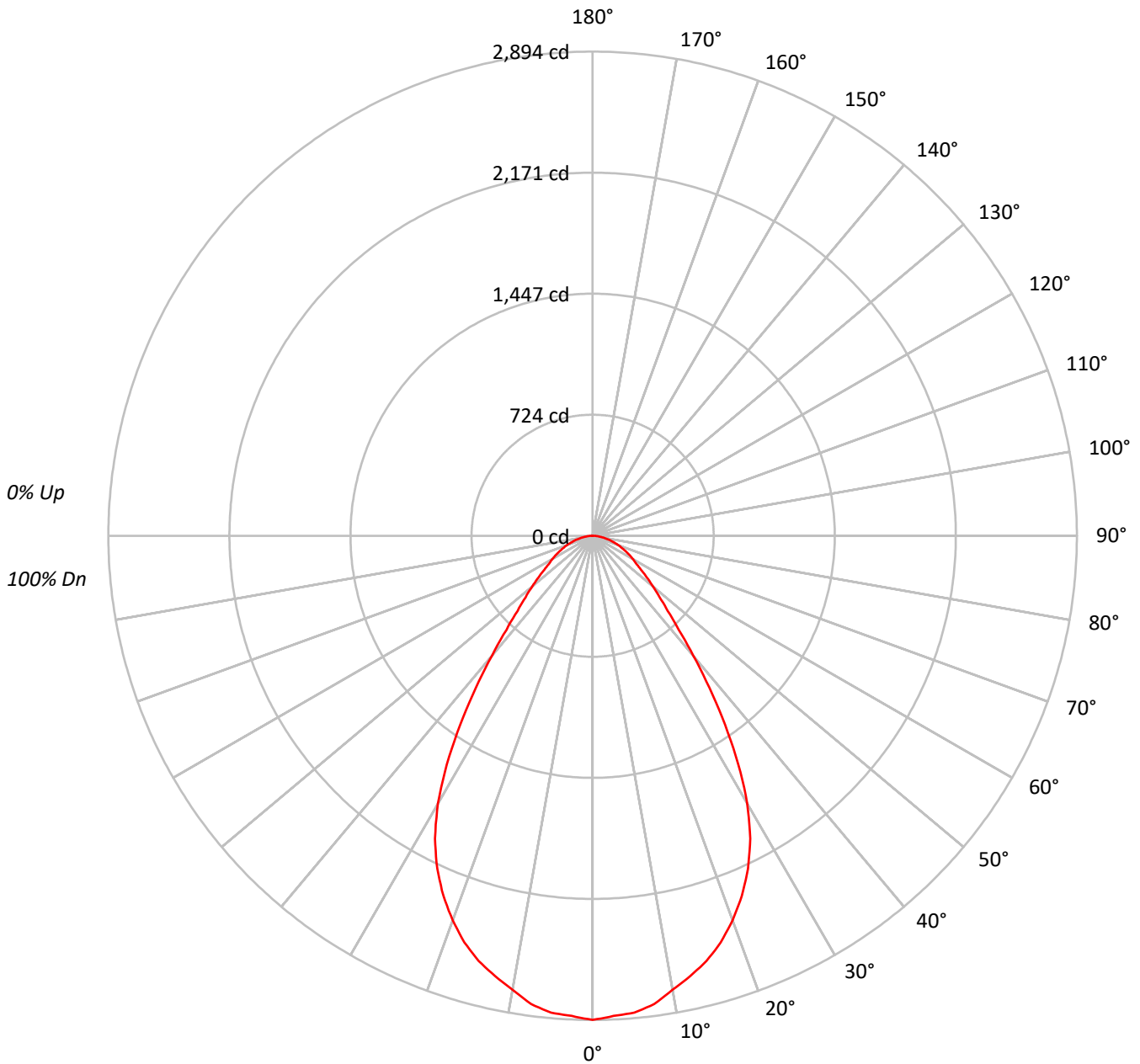
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	356925
5°	354265
10°	345047
15°	335957
20°	320909
25°	298991
30°	263263
35°	207631
40°	150711
45°	110733
50°	90093
55°	75546
60°	68457
65°	62925
70°	58604
75°	53471
80°	48302
85°	41749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	6.6
10°-20°	737.9	18.2
20°-30°	1000.3	24.6
30°-40°	858.4	21.1
40°-50°	506.8	12.5
50°-60°	321.2	7.9
60°-70°	215.8	5.3
70°-80°	119.1	2.9
80°-90°	33.3	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°	2008.0	49.4
0°-40°	2866.4	70.6
0°-60°	3694.4	90.9
0°-90°	4062.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4062.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2894	
5°	2861	270
15°	2631	738
25°	2197	1000
35°	1379	858
45°	635	507
55°	351	321
65°	216	216
75°	112	119
85°	30	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2893.7
2.5°	2873.0
5°	2861.2
7.5°	2822.8
10°	2754.9
12.5°	2695.8
15°	2630.9
17.5°	2548.2
20°	2444.8
22.5°	2329.8
25°	2196.9
27.5°	2040.3
30°	1848.4
32.5°	1621.0
35°	1378.9
37.5°	1145.7
40°	936.0
42.5°	761.8
45°	634.8
47.5°	543.3
50°	469.5
52.5°	407.5
55°	351.3
57.5°	307.1
60°	277.5
62.5°	248.1
65°	215.6
67.5°	189.0
70°	162.5
72.5°	135.8
75°	112.2
77.5°	88.5
80°	68.0
82.5°	47.2
85°	29.5
87.5°	11.8
90°	0.0



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— 0°-180°







(END OF REPORT)