

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: P581146

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560830-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4734.2 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

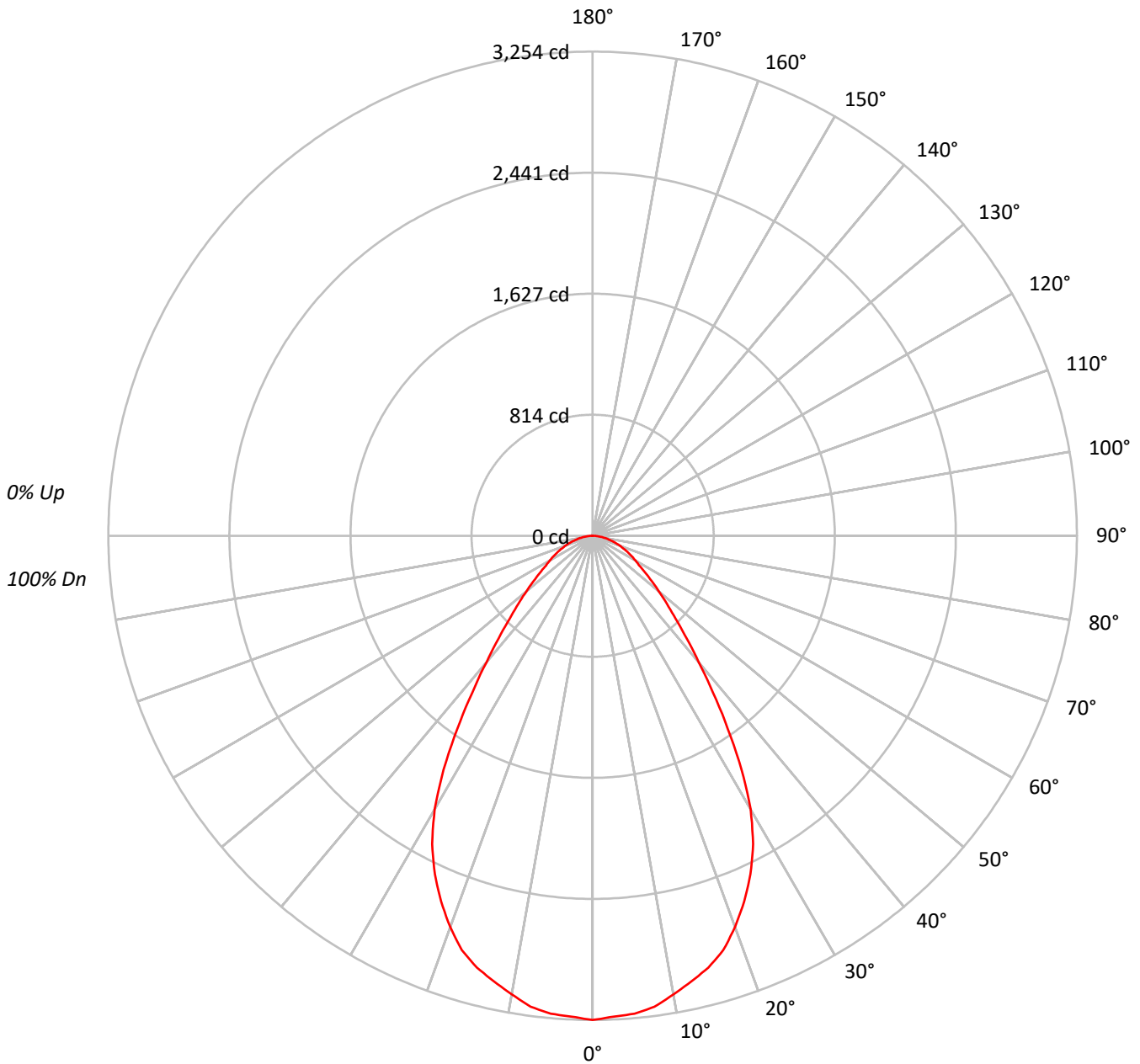
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	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	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	401367
5°	399247
10°	391940
15°	383678
20°	367270
25°	341508
30°	302273
35°	238559
40°	178519
45°	137334
50°	111412
55°	92427
60°	81729
65°	75621
70°	69784
75°	64051
80°	58246
85°	46420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	6.4
10°-20°	842.6	17.8
20°-30°	1144.1	24.2
30°-40°	991.1	20.9
40°-50°	622.2	13.1
50°-60°	391.5	8.3
60°-70°	257.1	5.4
70°-80°	141.8	3.0
80°-90°	38.8	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°	2291.6	48.4
0°-40°	3282.7	69.3
0°-60°	4296.4	90.8
0°-90°	4734.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4734.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3254	
5°	3224	305
15°	3005	843
25°	2509	1144
35°	1584	991
45°	787	622
55°	430	391
65°	259	257
75°	134	142
85°	33	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3254.0
2.5°	3234.3
5°	3224.5
7.5°	3191.6
10°	3129.3
12.5°	3067.0
15°	3004.6
17.5°	2919.4
20°	2798.0
22.5°	2660.3
25°	2509.3
27.5°	2335.5
30°	2122.3
32.5°	1863.1
35°	1584.3
37.5°	1328.5
40°	1108.7
42.5°	934.9
45°	787.3
47.5°	675.7
50°	580.6
52.5°	498.6
55°	429.8
57.5°	370.7
60°	331.3
62.5°	295.2
65°	259.1
67.5°	223.1
70°	193.5
72.5°	160.8
75°	134.4
77.5°	105.0
80°	82.0
82.5°	55.8
85°	32.8
87.5°	13.2
90°	0.0



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— 0°-180°







(END OF REPORT)