

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: P581236

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581236
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-HM44560935-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4177.8 lumens
Efficiency: N/A
Efficacy: 80.3 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

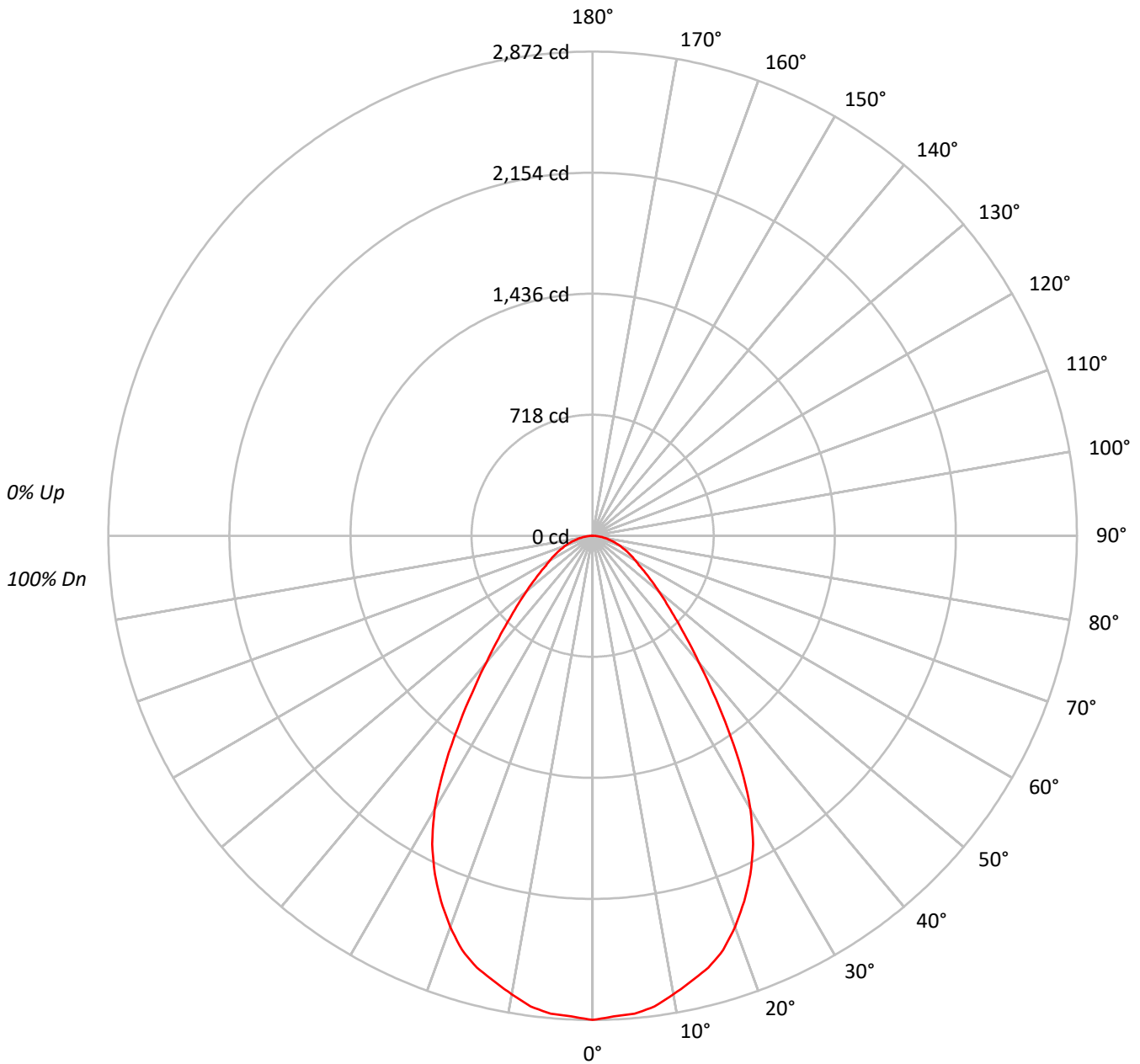
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	354187
5°	352321
10°	345874
15°	338588
20°	324111
25°	301386
30°	266738
35°	210522
40°	157538
45°	121181
50°	98306
55°	81546
60°	72133
65°	66749
70°	61597
75°	56569
80°	51356
85°	40900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	6.4
10°-20°	743.6	17.8
20°-30°	1009.7	24.2
30°-40°	874.6	20.9
40°-50°	549.1	13.1
50°-60°	345.5	8.3
60°-70°	227.0	5.4
70°-80°	125.2	3.0
80°-90°	34.2	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°	2022.3	48.4
0°-40°	2896.9	69.3
0°-60°	3791.4	90.8
0°-90°	4177.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4177.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2872	
5°	2846	269
15°	2652	744
25°	2214	1010
35°	1398	875
45°	695	549
55°	379	345
65°	229	227
75°	119	125
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2871.5
2.5°	2854.1
5°	2845.5
7.5°	2816.5
10°	2761.5
12.5°	2706.5
15°	2651.5
17.5°	2576.2
20°	2469.2
22.5°	2347.5
25°	2214.5
27.5°	2061.0
30°	1872.8
32.5°	1644.2
35°	1398.1
37.5°	1172.4
40°	978.4
42.5°	825.0
45°	694.7
47.5°	596.2
50°	512.3
52.5°	440.0
55°	379.2
57.5°	327.2
60°	292.4
62.5°	260.6
65°	228.7
67.5°	196.9
70°	170.8
72.5°	141.9
75°	118.7
77.5°	92.6
80°	72.3
82.5°	49.2
85°	28.9
87.5°	11.6
90°	0.0



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— 0°-180°







(END OF REPORT)