

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: P581156

Luminaire Tested: **HC455D010-HM44560835-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560835-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5319.9 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

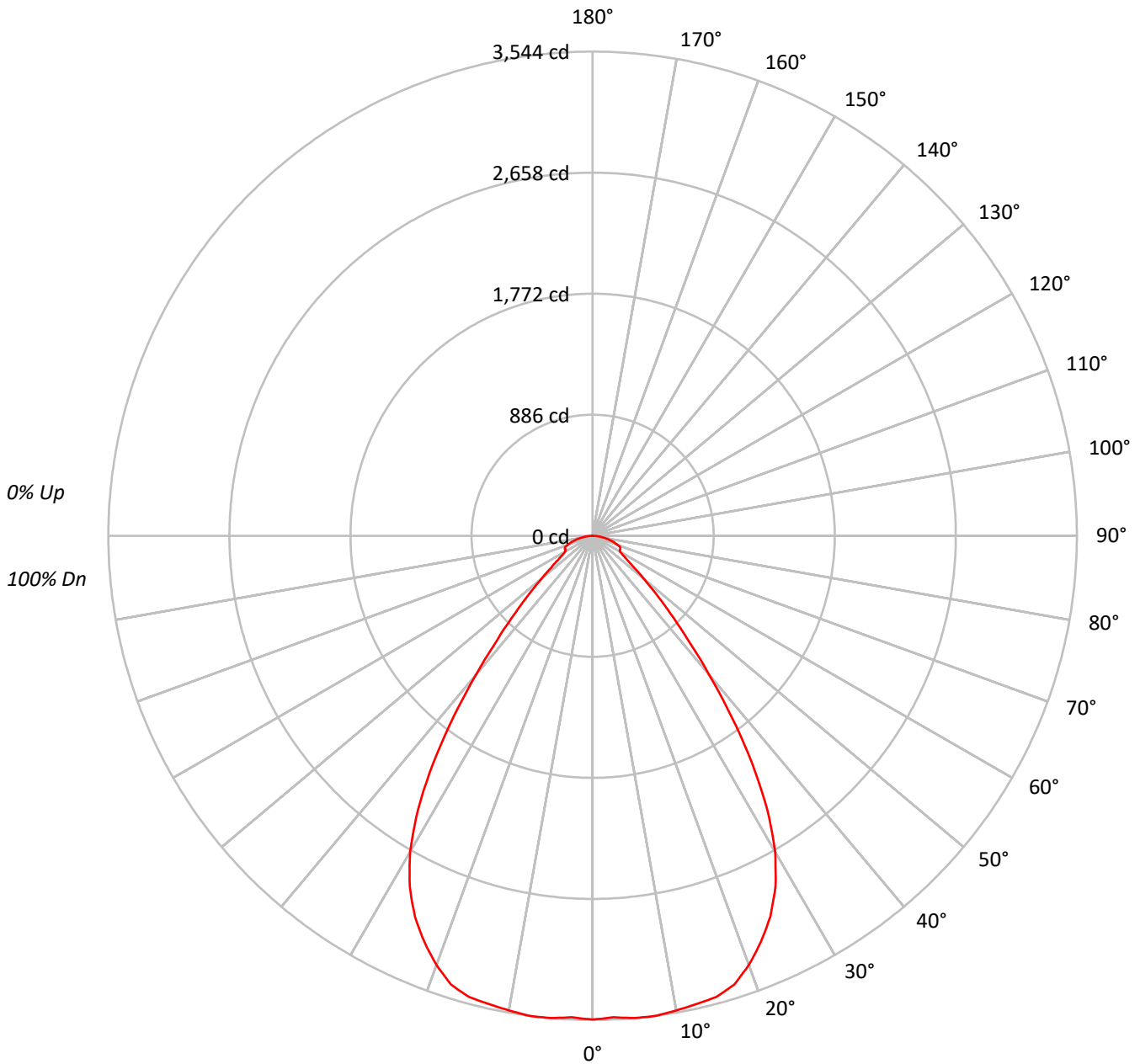
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	436742
5°	438819
10°	441826
15°	446249
20°	438795
25°	418634
30°	380338
35°	306786
40°	212864
45°	139742
50°	93624
55°	66643
60°	56912
65°	65435
70°	70144
75°	67578
80°	60874
85°	56043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.8	6.3
10°-20°	981.7	18.5
20°-30°	1402.6	26.4
30°-40°	1253.0	23.6
40°-50°	642.6	12.1
50°-60°	292.1	5.5
60°-70°	217.9	4.1
70°-80°	148.2	2.8
80°-90°	44.0	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°	2722.1	51.2
0°-40°	3975.0	74.7
0°-60°	4909.8	92.3
0°-90°	5319.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5319.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3541	
5°	3544	338
15°	3495	982
25°	3076	1403
35°	2037	1253
45°	801	643
55°	310	292
65°	224	218
75°	142	148
85°	40	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3540.8
2.5°	3527.6
5°	3544.1
7.5°	3544.1
10°	3527.6
12.5°	3511.1
15°	3494.6
17.5°	3445.2
20°	3342.9
22.5°	3217.7
25°	3076.0
27.5°	2897.9
30°	2670.4
32.5°	2380.3
35°	2037.4
37.5°	1671.5
40°	1322.0
42.5°	1031.9
45°	801.1
47.5°	626.4
50°	487.9
52.5°	382.4
55°	309.9
57.5°	260.4
60°	230.7
62.5°	224.2
65°	224.2
67.5°	217.6
70°	194.5
72.5°	168.2
75°	141.8
77.5°	112.0
80°	85.7
82.5°	62.7
85°	39.6
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)