

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: P581138

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581138
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-HM44560830-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5291.6 lumens
Efficiency: N/A
Efficacy: 101.8 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

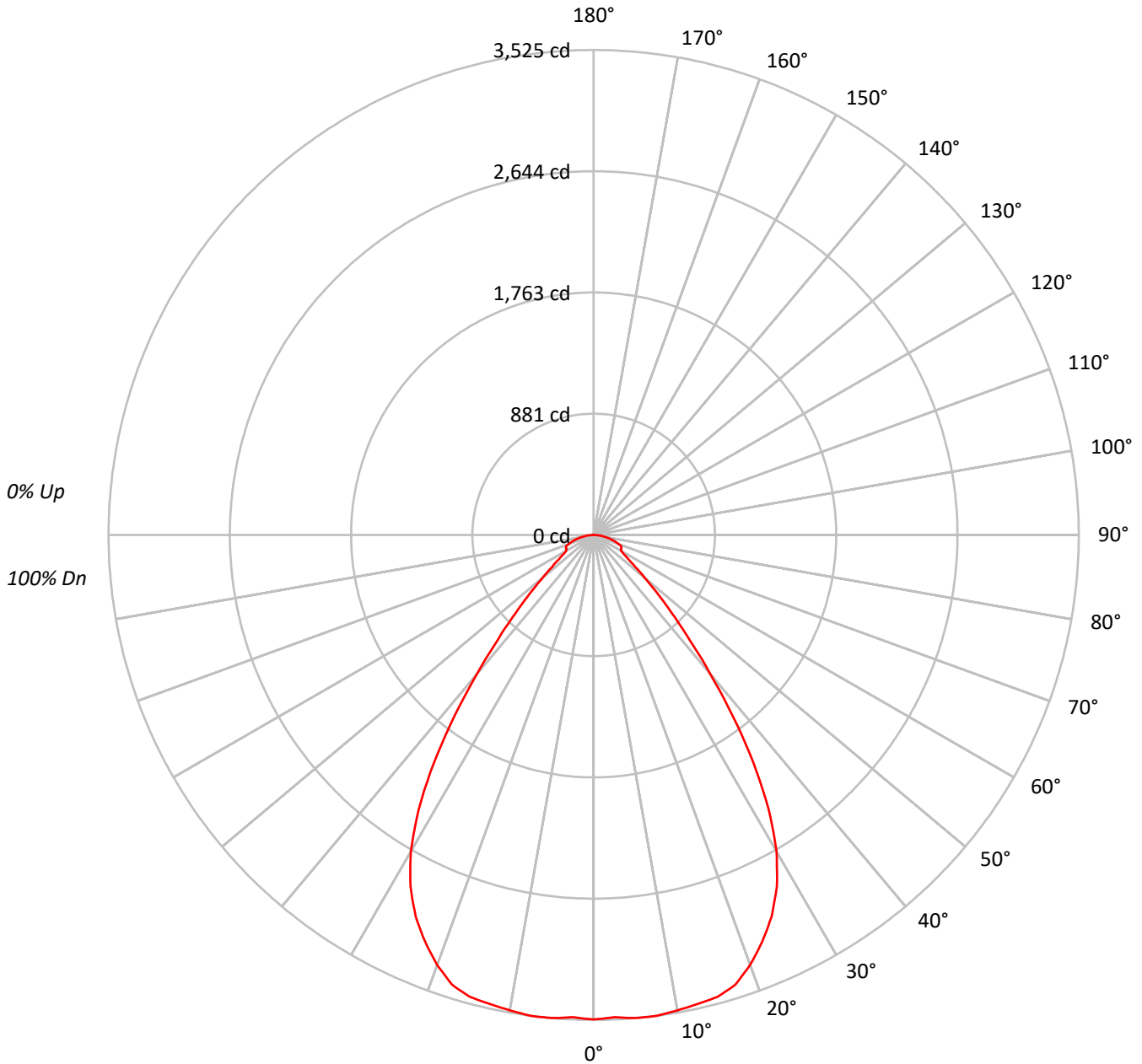
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	434411
5°	436479
10°	439472
15°	443874
20°	436471
25°	416388
30°	378315
35°	305160
40°	211736
45°	138991
50°	93125
55°	66277
60°	56616
65°	65085
70°	69784
75°	67196
80°	60590
85°	55760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	6.3
10°-20°	976.5	18.5
20°-30°	1395.1	26.4
30°-40°	1246.3	23.6
40°-50°	639.2	12.1
50°-60°	290.6	5.5
60°-70°	216.7	4.1
70°-80°	147.5	2.8
80°-90°	43.7	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°	2707.6	51.2
0°-40°	3953.9	74.7
0°-60°	4883.7	92.3
0°-90°	5291.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5291.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3522	
5°	3525	336
15°	3476	976
25°	3060	1395
35°	2027	1246
45°	797	639
55°	308	291
65°	223	217
75°	141	147
85°	39	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3521.9
2.5°	3508.8
5°	3525.2
7.5°	3525.2
10°	3508.8
12.5°	3492.4
15°	3476.0
17.5°	3426.9
20°	3325.2
22.5°	3200.5
25°	3059.5
27.5°	2882.5
30°	2656.2
32.5°	2367.7
35°	2026.6
37.5°	1662.6
40°	1315.0
42.5°	1026.4
45°	796.8
47.5°	623.0
50°	485.3
52.5°	380.4
55°	308.2
57.5°	259.1
60°	229.5
62.5°	223.0
65°	223.0
67.5°	216.4
70°	193.5
72.5°	167.3
75°	141.0
77.5°	111.5
80°	85.3
82.5°	62.3
85°	39.4
87.5°	16.4
90°	0.0



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— 0°-180°







(END OF REPORT)