

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: P581120

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581120
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-HM44560827-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4765.5 lumens
Efficiency: N/A
Efficacy: 91.6 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

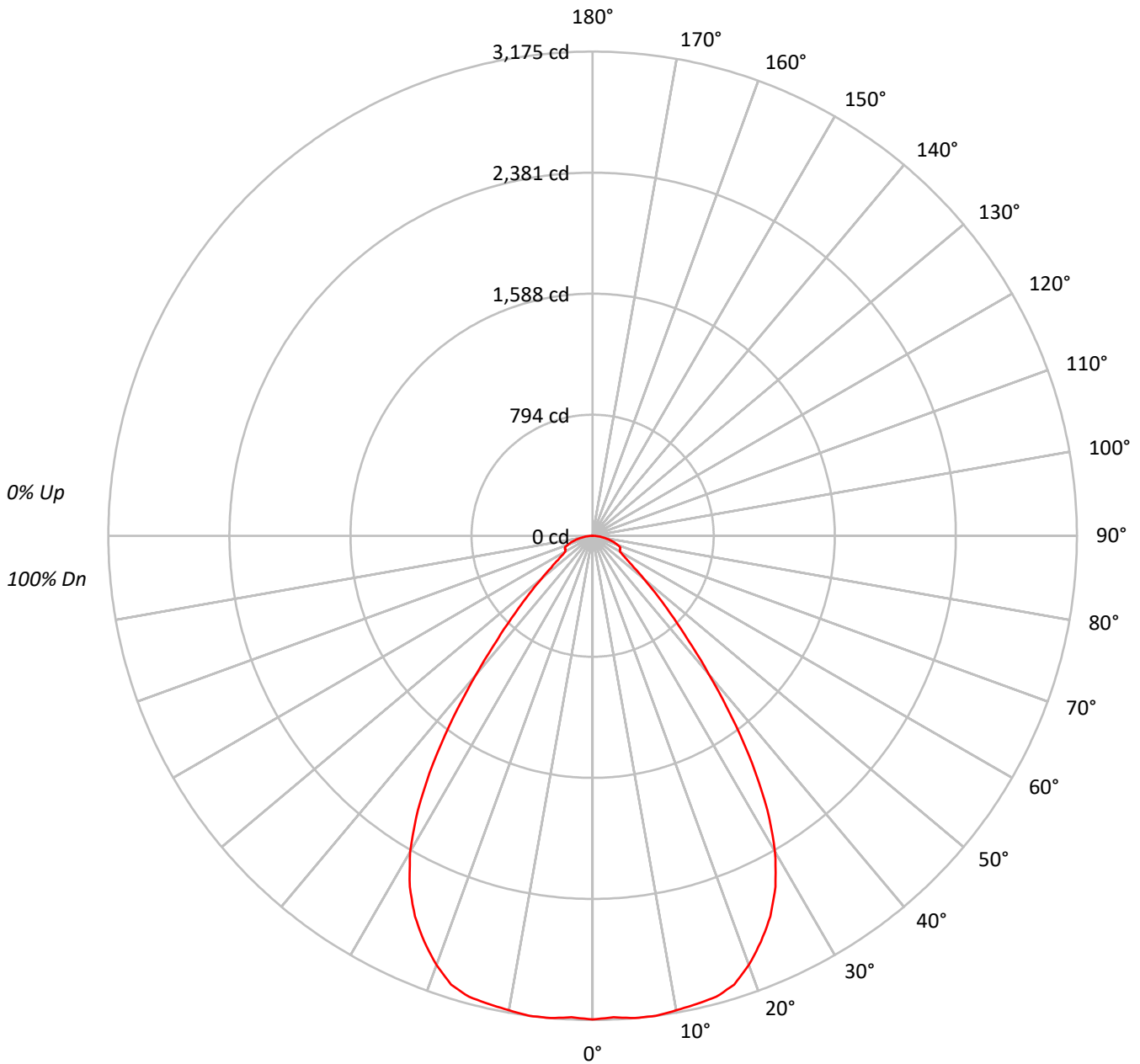
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	391215
5°	393069
10°	395773
15°	399729
20°	393063
25°	375001
30°	340700
35°	274818
40°	190675
45°	125176
50°	83876
55°	59718
60°	51016
65°	58606
70°	62859
75°	60525
80°	54553
85°	50099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.5	6.3
10°-20°	879.4	18.5
20°-30°	1256.4	26.4
30°-40°	1122.4	23.6
40°-50°	575.7	12.1
50°-60°	261.7	5.5
60°-70°	195.2	4.1
70°-80°	132.8	2.8
80°-90°	39.3	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°	2438.3	51.2
0°-40°	3560.7	74.7
0°-60°	4398.1	92.3
0°-90°	4765.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4765.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3172	
5°	3175	303
15°	3130	879
25°	2755	1256
35°	1825	1122
45°	718	576
55°	278	262
65°	201	195
75°	127	133
85°	35	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3171.7
2.5°	3159.9
5°	3174.6
7.5°	3174.6
10°	3159.9
12.5°	3145.2
15°	3130.3
17.5°	3086.1
20°	2994.5
22.5°	2882.2
25°	2755.4
27.5°	2595.8
30°	2392.1
32.5°	2132.2
35°	1825.1
37.5°	1497.3
40°	1184.2
42.5°	924.3
45°	717.6
47.5°	561.2
50°	437.1
52.5°	342.6
55°	277.7
57.5°	233.3
60°	206.8
62.5°	200.8
65°	200.8
67.5°	195.0
70°	174.3
72.5°	150.6
75°	127.0
77.5°	100.5
80°	76.8
82.5°	56.1
85°	35.4
87.5°	14.7
90°	0.0



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— 0°-180°







(END OF REPORT)