

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: P580688

Luminaire Tested: **HC445D010-HM44560827-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580688
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: HC445D010-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: 4303.2 lumens
Efficiency: N/A
Efficacy: 97.8 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

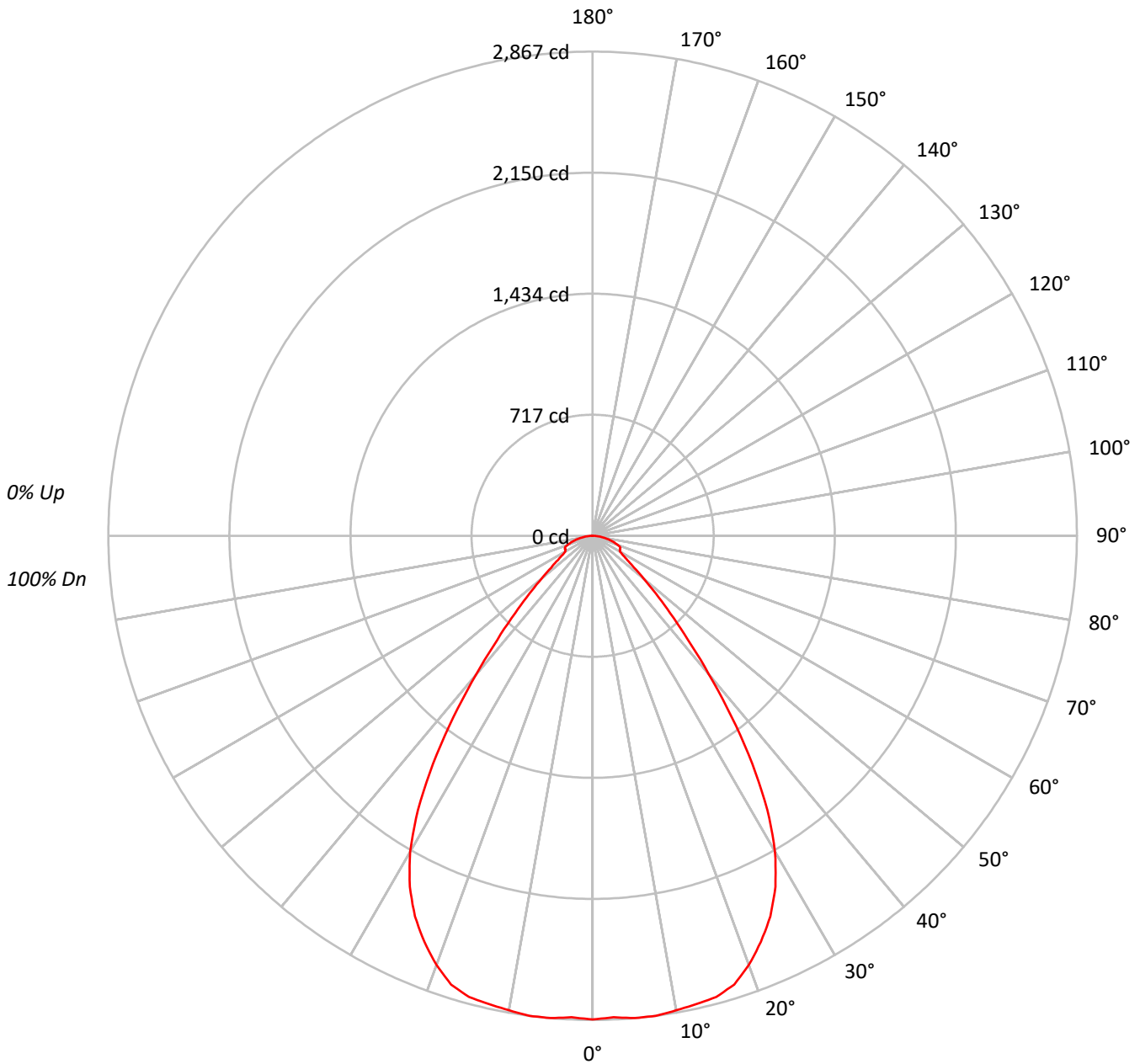
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	353274
5°	354946
10°	357384
15°	360973
20°	354932
25°	338609
30°	307657
35°	248151
40°	172191
45°	113053
50°	75740
55°	53912
60°	46057
65°	52914
70°	56728
75°	54663
80°	49225
85°	45287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	6.3
10°-20°	794.1	18.5
20°-30°	1134.5	26.4
30°-40°	1013.5	23.6
40°-50°	519.9	12.1
50°-60°	236.3	5.5
60°-70°	176.2	4.1
70°-80°	119.9	2.8
80°-90°	35.6	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°	2201.8	51.2
0°-40°	3215.3	74.7
0°-60°	3971.5	92.3
0°-90°	4303.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4303.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2864	
5°	2867	273
15°	2827	794
25°	2488	1135
35°	1648	1014
45°	648	520
55°	251	236
65°	181	176
75°	115	120
85°	32	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2864.1
2.5°	2853.4
5°	2866.7
7.5°	2866.7
10°	2853.4
12.5°	2840.1
15°	2826.8
17.5°	2786.7
20°	2704.0
22.5°	2602.7
25°	2488.0
27.5°	2344.1
30°	2160.1
32.5°	1925.4
35°	1648.0
37.5°	1352.0
40°	1069.4
42.5°	834.7
45°	648.1
47.5°	506.7
50°	394.7
52.5°	309.3
55°	250.7
57.5°	210.7
60°	186.7
62.5°	181.3
65°	181.3
67.5°	176.0
70°	157.3
72.5°	136.0
75°	114.7
77.5°	90.7
80°	69.3
82.5°	50.7
85°	32.0
87.5°	13.4
90°	0.0



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— 0°-180°







(END OF REPORT)