

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: P580760

Luminaire Tested: **HC445D010-HM44560927-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580760
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-HM44560927-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3729.3 lumens
Efficiency: N/A
Efficacy: 84.8 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

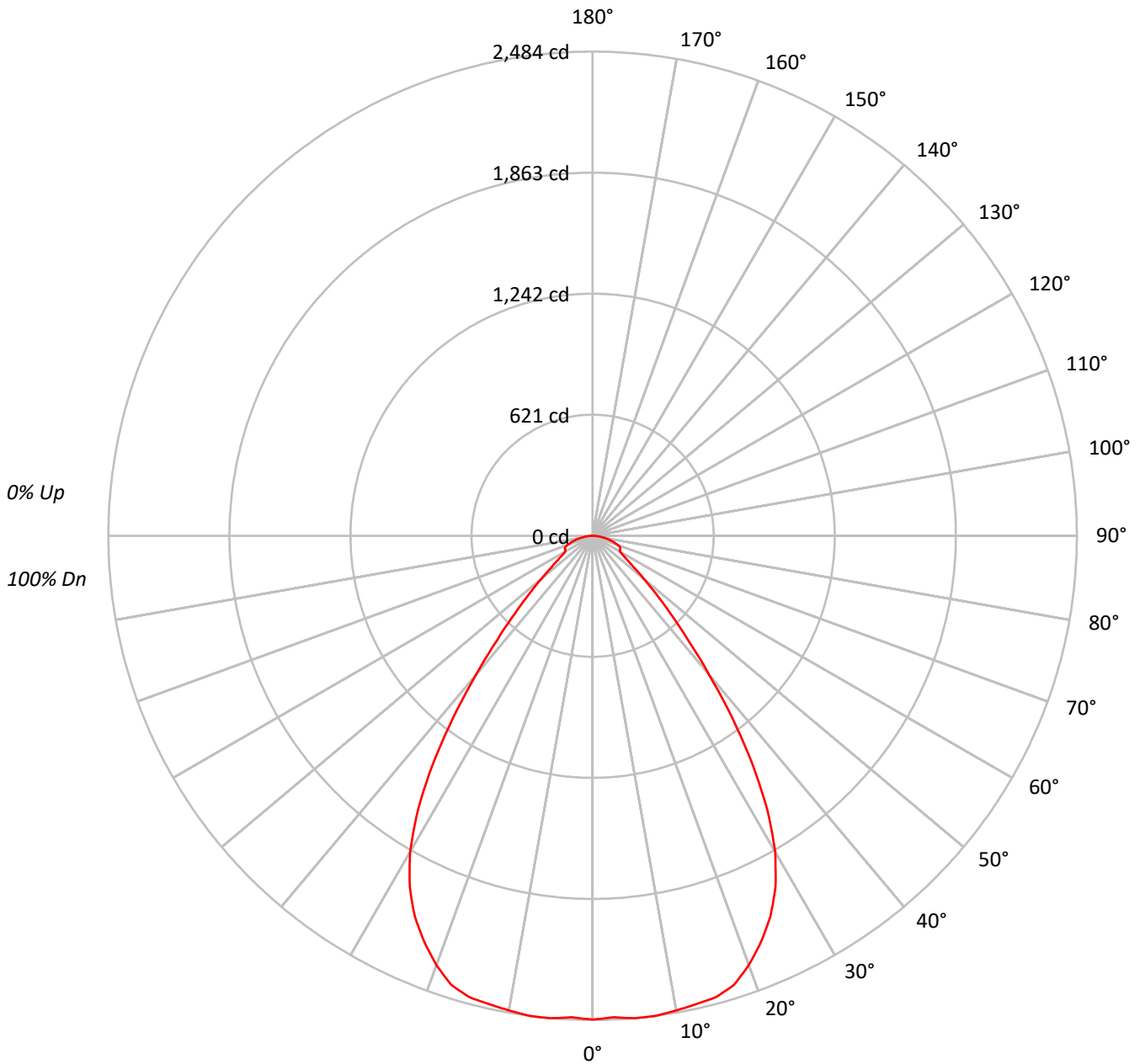
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	306169
5°	307610
10°	309727
15°	312832
20°	307612
25°	293466
30°	266638
35°	215069
40°	149230
45°	97964
50°	65646
55°	46708
60°	39915
65°	45880
70°	49155
75°	47371
80°	42690
85°	39202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	6.3
10°-20°	688.2	18.5
20°-30°	983.3	26.4
30°-40°	878.4	23.6
40°-50°	450.5	12.1
50°-60°	204.7	5.5
60°-70°	152.7	4.1
70°-80°	103.9	2.8
80°-90°	30.8	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°	1908.2	51.2
0°-40°	2786.6	74.7
0°-60°	3441.9	92.3
0°-90°	3729.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3729.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2482	
5°	2484	237
15°	2450	688
25°	2156	983
35°	1428	878
45°	562	451
55°	217	205
65°	157	153
75°	99	104
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2482.2
2.5°	2472.9
5°	2484.4
7.5°	2484.4
10°	2472.9
12.5°	2461.3
15°	2449.8
17.5°	2415.1
20°	2343.5
22.5°	2255.7
25°	2156.3
27.5°	2031.5
30°	1872.1
32.5°	1668.6
35°	1428.3
37.5°	1171.7
40°	926.8
42.5°	723.4
45°	561.6
47.5°	439.2
50°	342.1
52.5°	268.0
55°	217.2
57.5°	182.5
60°	161.8
62.5°	157.2
65°	157.2
67.5°	152.5
70°	136.3
72.5°	117.9
75°	99.4
77.5°	78.5
80°	60.1
82.5°	43.9
85°	27.7
87.5°	11.6
90°	0.0



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— 0°-180°







(END OF REPORT)