

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: P580762

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560927-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3207.3 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

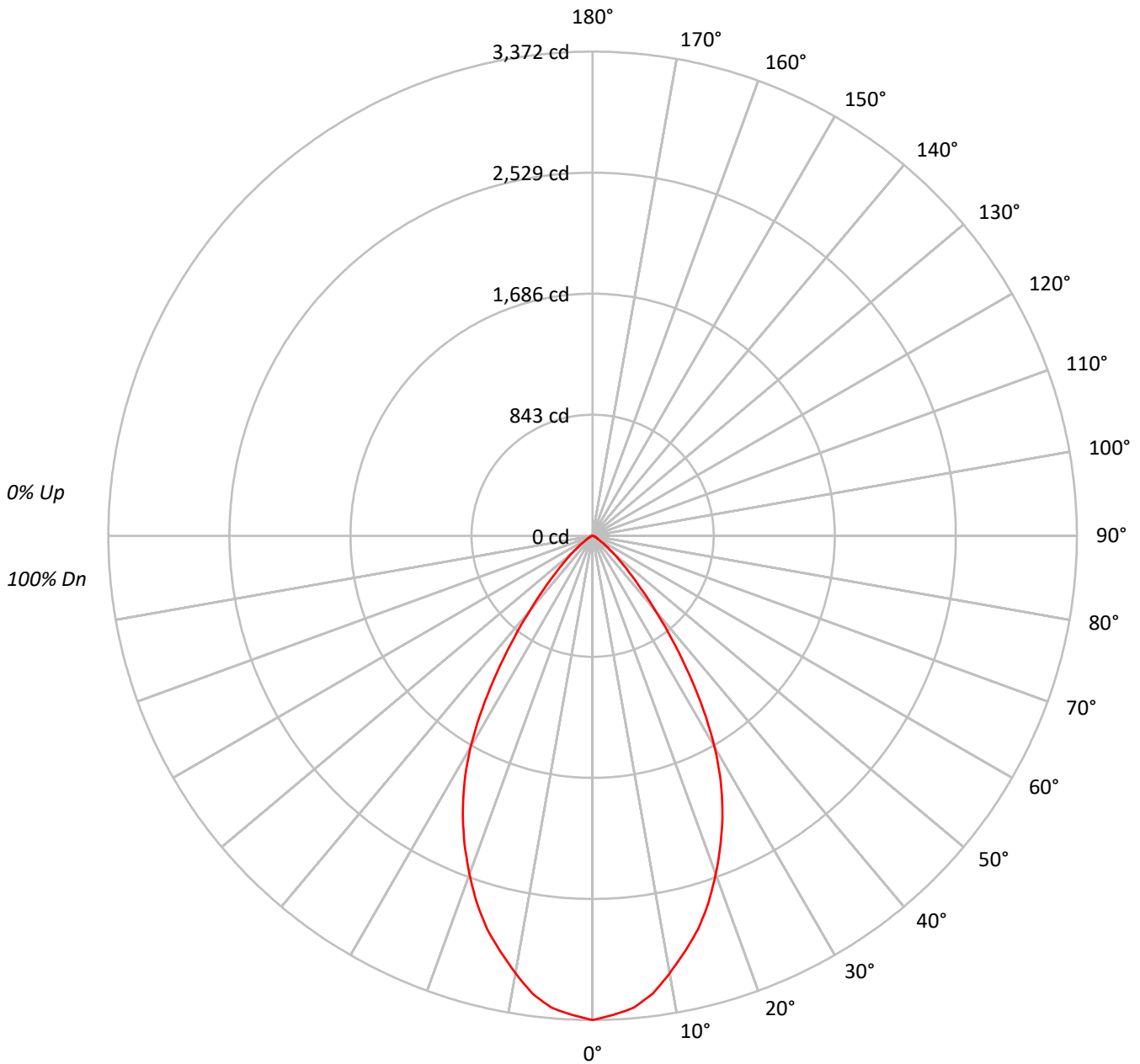
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86			86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63			63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54			54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	415971
5°	408410
10°	387381
15°	362212
20°	328968
25°	291111
30°	242141
35°	174609
40°	108976
45°	62867
50°	35462
55°	16881
60°	9695
65°	7413
70°	5013
75°	3336
80°	3267
85°	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	9.6
10°-20°	791.3	24.7
20°-30°	973.2	30.3
30°-40°	722.8	22.5
40°-50°	293.9	9.2
50°-60°	81.3	2.5
60°-70°	25.3	0.8
70°-80°	8.5	0.3
80°-90°	2.6	0.1
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°	2072.8	64.6
0°-40°	2795.6	87.2
0°-60°	3170.8	98.9
0°-90°	3207.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3372	
5°	3298	308
15°	2836	791
25°	2139	973
35°	1160	723
45°	360	294
55°	78	81
65°	25	25
75°	7	9
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3372.4
2.5°	3340.1
5°	3298.5
7.5°	3215.3
10°	3092.9
12.5°	2965.9
15°	2836.5
17.5°	2681.8
20°	2506.2
22.5°	2328.4
25°	2139.0
27.5°	1933.3
30°	1700.1
32.5°	1434.5
35°	1159.6
37.5°	900.9
40°	676.8
42.5°	494.4
45°	360.4
47.5°	258.7
50°	184.8
52.5°	127.0
55°	78.5
57.5°	50.8
60°	39.3
62.5°	32.3
65°	25.4
67.5°	18.5
70°	13.9
72.5°	11.6
75°	7.0
77.5°	4.6
80°	4.6
82.5°	2.4
85°	2.4
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)