

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: P580779

Luminaire Tested: **HC445D010-HM44560930-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560930-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3689.6 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

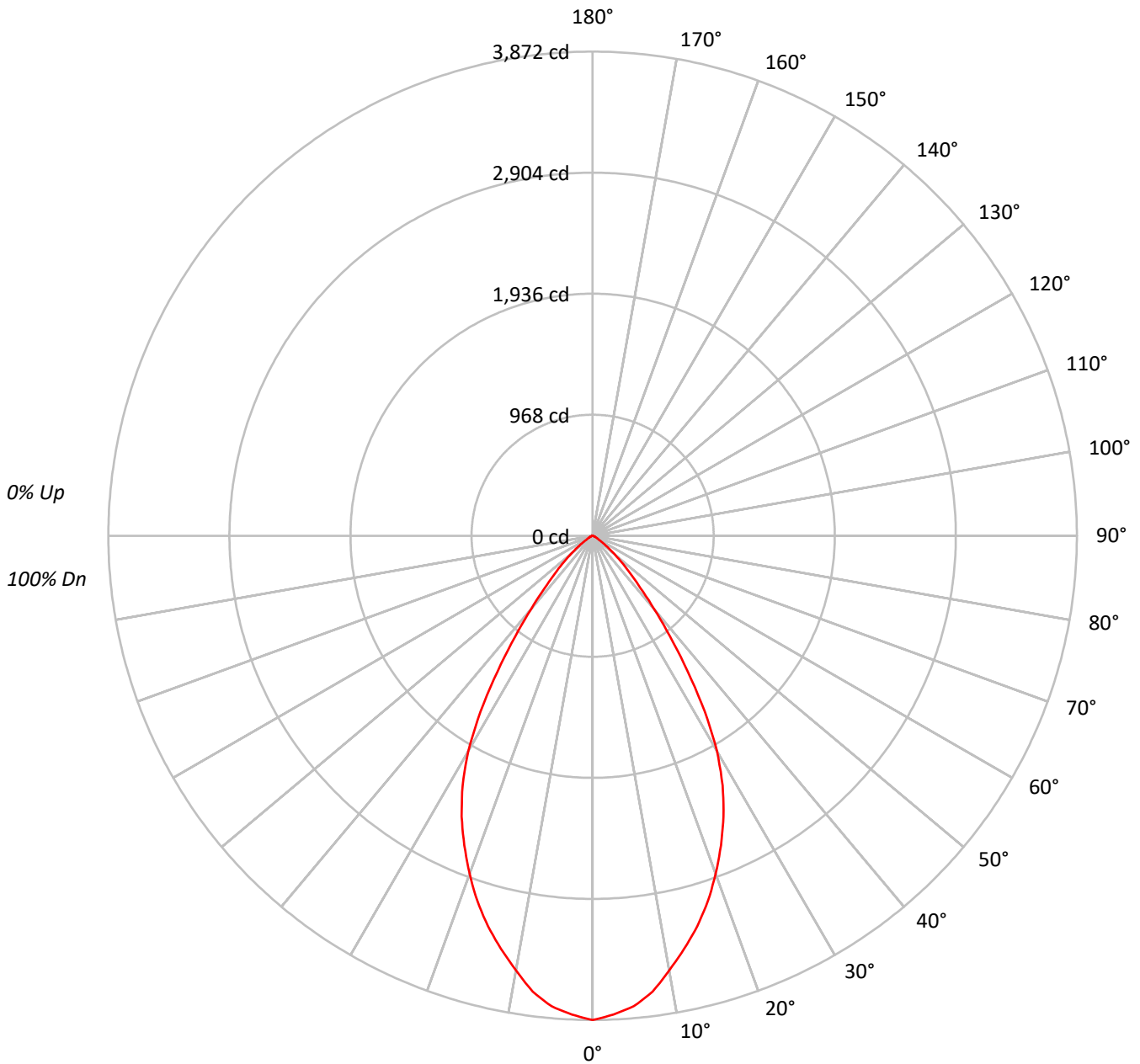
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62			62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58			58
8	77	67	61	56	76	66	60	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	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	477644
5°	467656
10°	441952
15°	412780
20°	377509
25°	337112
30°	283088
35°	199153
40°	122855
45°	73543
50°	43348
55°	21591
60°	11150
65°	7326
70°	4544
75°	3574
80°	1776
85°	3538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.7	9.6
10°-20°	903.6	24.5
20°-30°	1126.8	30.5
30°-40°	830.1	22.5
40°-50°	341.4	9.3
50°-60°	99.8	2.7
60°-70°	25.7	0.7
70°-80°	7.9	0.2
80°-90°	1.7	0.0
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°	2383.1	64.6
0°-40°	3213.2	87.1
0°-60°	3654.3	99.0
0°-90°	3689.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3689.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3872	
5°	3777	353
15°	3232	904
25°	2477	1127
35°	1323	830
45°	422	341
55°	100	100
65°	25	26
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3872.4
2.5°	3832.3
5°	3777.0
7.5°	3676.7
10°	3528.6
12.5°	3383.1
15°	3232.5
17.5°	3064.3
20°	2876.0
22.5°	2680.3
25°	2477.0
27.5°	2251.2
30°	1987.6
32.5°	1669.0
35°	1322.6
37.5°	1016.4
40°	763.0
42.5°	564.7
45°	421.6
47.5°	311.2
50°	225.9
52.5°	155.6
55°	100.4
57.5°	60.3
60°	45.2
62.5°	32.7
65°	25.1
67.5°	17.6
70°	12.6
72.5°	10.0
75°	7.5
77.5°	5.0
80°	2.5
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)