

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: P580798

Luminaire Tested: **HC445D010-HM44560935-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580798
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-HM44560935-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3626.2 lumens
Efficiency: N/A
Efficacy: 82.4 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

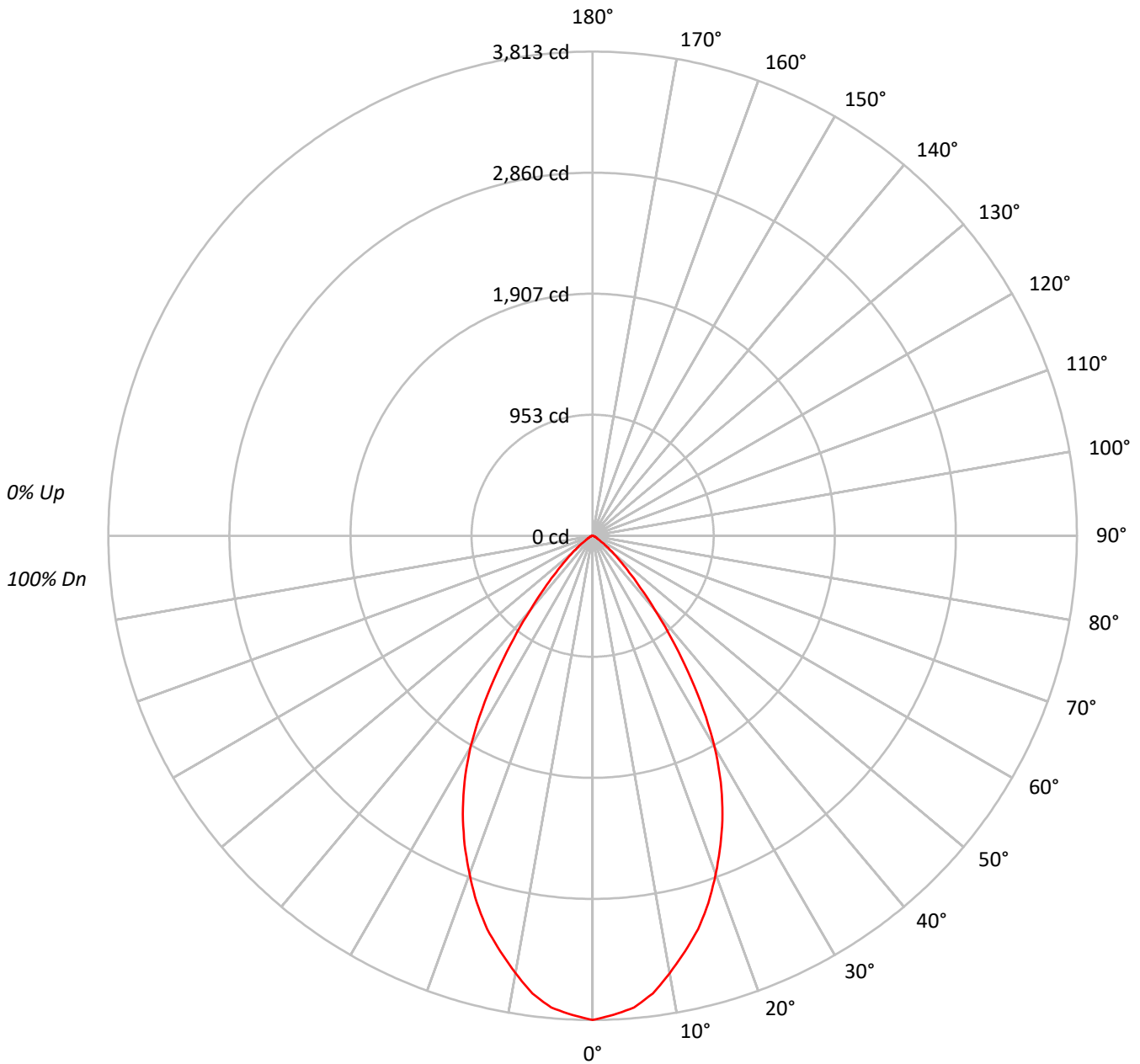
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	470329
5°	461775
10°	437994
15°	409549
20°	371956
25°	329150
30°	273774
35°	197422
40°	123210
45°	71066
50°	40086
55°	19096
60°	10953
65°	8376
70°	5662
75°	3765
80°	3765
85°	3680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.6	9.6
10°-20°	894.7	24.7
20°-30°	1100.4	30.3
30°-40°	817.2	22.5
40°-50°	332.2	9.2
50°-60°	92.0	2.5
60°-70°	28.7	0.8
70°-80°	9.7	0.3
80°-90°	2.8	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°	2343.7	64.6
0°-40°	3160.9	87.2
0°-60°	3585.1	98.9
0°-90°	3626.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3626.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3813	
5°	3730	349
15°	3207	895
25°	2418	1100
35°	1311	817
45°	407	332
55°	89	92
65°	29	29
75°	8	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3813.1
2.5°	3776.5
5°	3729.5
7.5°	3635.5
10°	3497.0
12.5°	3353.4
15°	3207.2
17.5°	3032.2
20°	2833.7
22.5°	2632.7
25°	2418.5
27.5°	2186.0
30°	1922.2
32.5°	1621.9
35°	1311.1
37.5°	1018.6
40°	765.2
42.5°	558.9
45°	407.4
47.5°	292.5
50°	208.9
52.5°	143.6
55°	88.8
57.5°	57.4
60°	44.4
62.5°	36.6
65°	28.7
67.5°	20.9
70°	15.7
72.5°	13.0
75°	7.9
77.5°	5.3
80°	5.3
82.5°	2.6
85°	2.6
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)