

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: P580743

Luminaire Tested: **HC445D010-HM44560840-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580743
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-HM44560840-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4987.8 lumens
Efficiency: N/A
Efficacy: 113.4 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

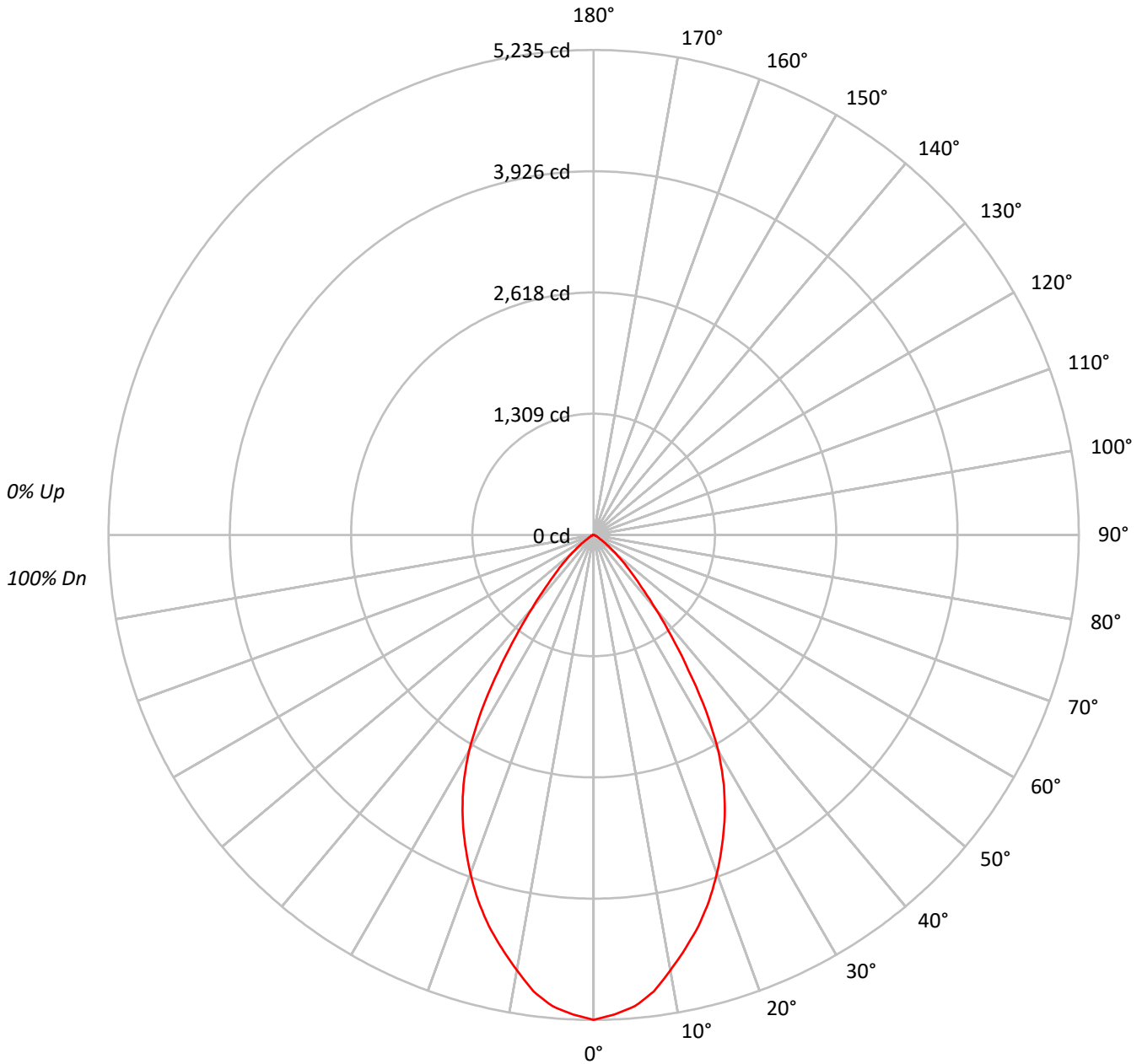
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	645714
5°	632221
10°	597460
15°	558022
20°	510359
25°	455734
30°	382716
35°	269232
40°	166056
45°	99429
50°	58585
55°	29203
60°	15048
65°	9894
70°	6095
75°	4861
80°	2415
85°	4812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.8	9.6
10°-20°	1221.5	24.5
20°-30°	1523.3	30.5
30°-40°	1122.1	22.5
40°-50°	461.5	9.3
50°-60°	134.9	2.7
60°-70°	34.7	0.7
70°-80°	10.7	0.2
80°-90°	2.3	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°	3221.7	64.6
0°-40°	4343.8	87.1
0°-60°	4940.2	99.0
0°-90°	4987.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4987.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5235	
5°	5106	477
15°	4370	1222
25°	3349	1523
35°	1788	1122
45°	570	462
55°	136	135
65°	34	35
75°	10	11
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5235.0
2.5°	5180.7
5°	5106.1
7.5°	4970.3
10°	4770.2
12.5°	4573.4
15°	4369.9
17.5°	4142.5
20°	3888.1
22.5°	3623.5
25°	3348.6
27.5°	3043.3
30°	2687.1
32.5°	2256.2
35°	1788.0
37.5°	1374.1
40°	1031.3
42.5°	763.4
45°	570.0
47.5°	420.8
50°	305.3
52.5°	210.4
55°	135.8
57.5°	81.5
60°	61.0
62.5°	44.1
65°	33.9
67.5°	23.8
70°	16.9
72.5°	13.6
75°	10.2
77.5°	6.7
80°	3.4
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)