

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: P580715

Luminaire Tested: **HC445D010-HM44560830-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560830-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.7 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

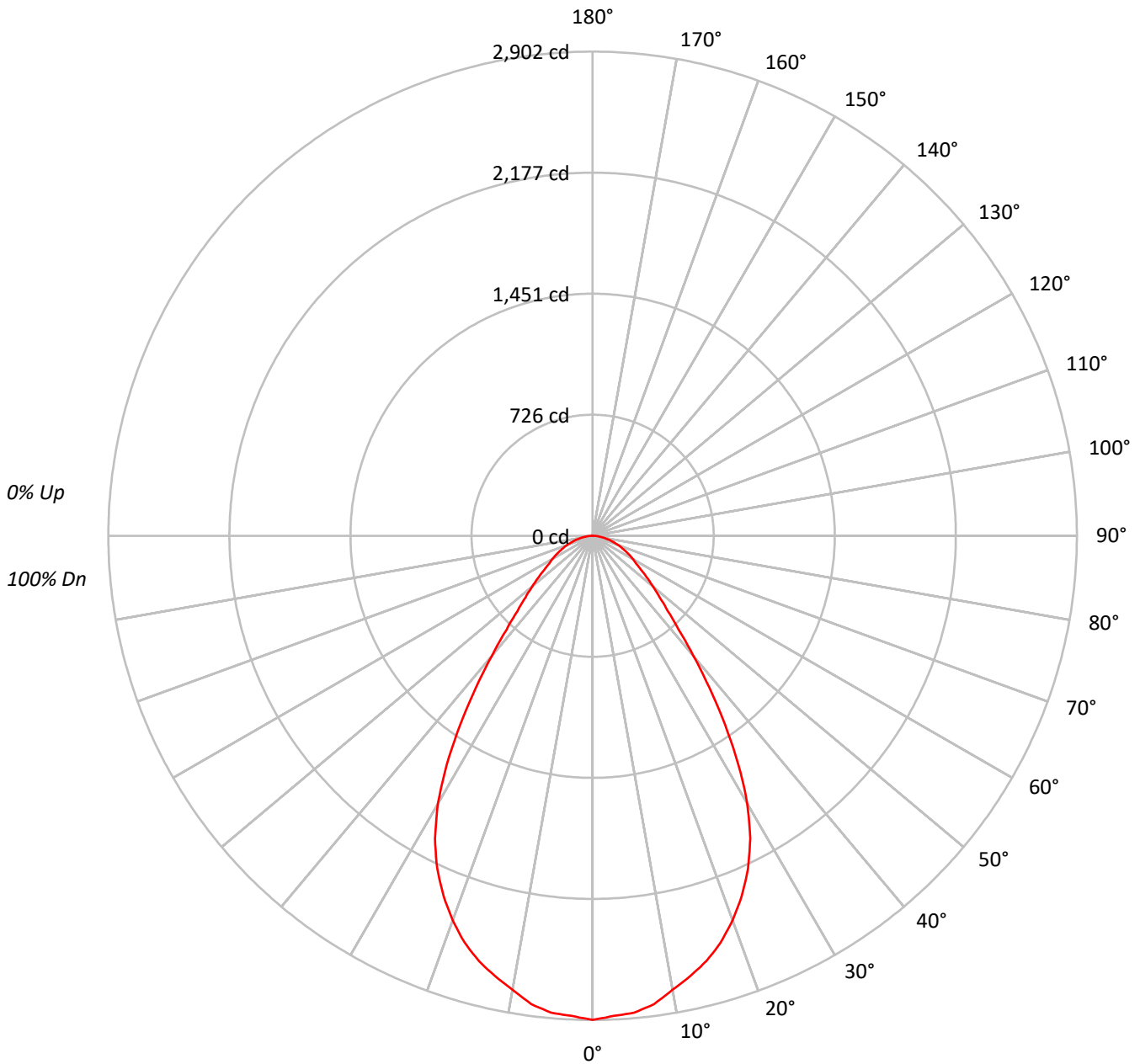
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	357900
5°	355230
10°	345986
15°	336864
20°	321801
25°	299794
30°	263975
35°	208188
40°	151130
45°	111047
50°	90343
55°	75761
60°	68679
65°	63071
70°	58712
75°	53614
80°	48373
85°	41891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.5	6.6
10°-20°	739.9	18.2
20°-30°	1003.0	24.6
30°-40°	860.7	21.1
40°-50°	508.2	12.5
50°-60°	322.1	7.9
60°-70°	216.4	5.3
70°-80°	119.5	2.9
80°-90°	33.4	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°	2013.5	49.4
0°-40°	2874.2	70.6
0°-60°	3704.4	90.9
0°-90°	4073.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4073.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2902	
5°	2869	271
15°	2638	740
25°	2203	1003
35°	1383	861
45°	637	508
55°	352	322
65°	216	216
75°	112	119
85°	30	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2901.6
2.5°	2880.8
5°	2869.0
7.5°	2830.5
10°	2762.4
12.5°	2703.2
15°	2638.0
17.5°	2555.1
20°	2451.6
22.5°	2336.0
25°	2202.8
27.5°	2045.9
30°	1853.4
32.5°	1625.4
35°	1382.6
37.5°	1148.8
40°	938.6
42.5°	763.9
45°	636.6
47.5°	544.7
50°	470.8
52.5°	408.6
55°	352.3
57.5°	307.9
60°	278.4
62.5°	248.7
65°	216.1
67.5°	189.5
70°	162.8
72.5°	136.2
75°	112.5
77.5°	88.9
80°	68.1
82.5°	47.3
85°	29.6
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)