

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: P580706

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560830-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4778.3 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

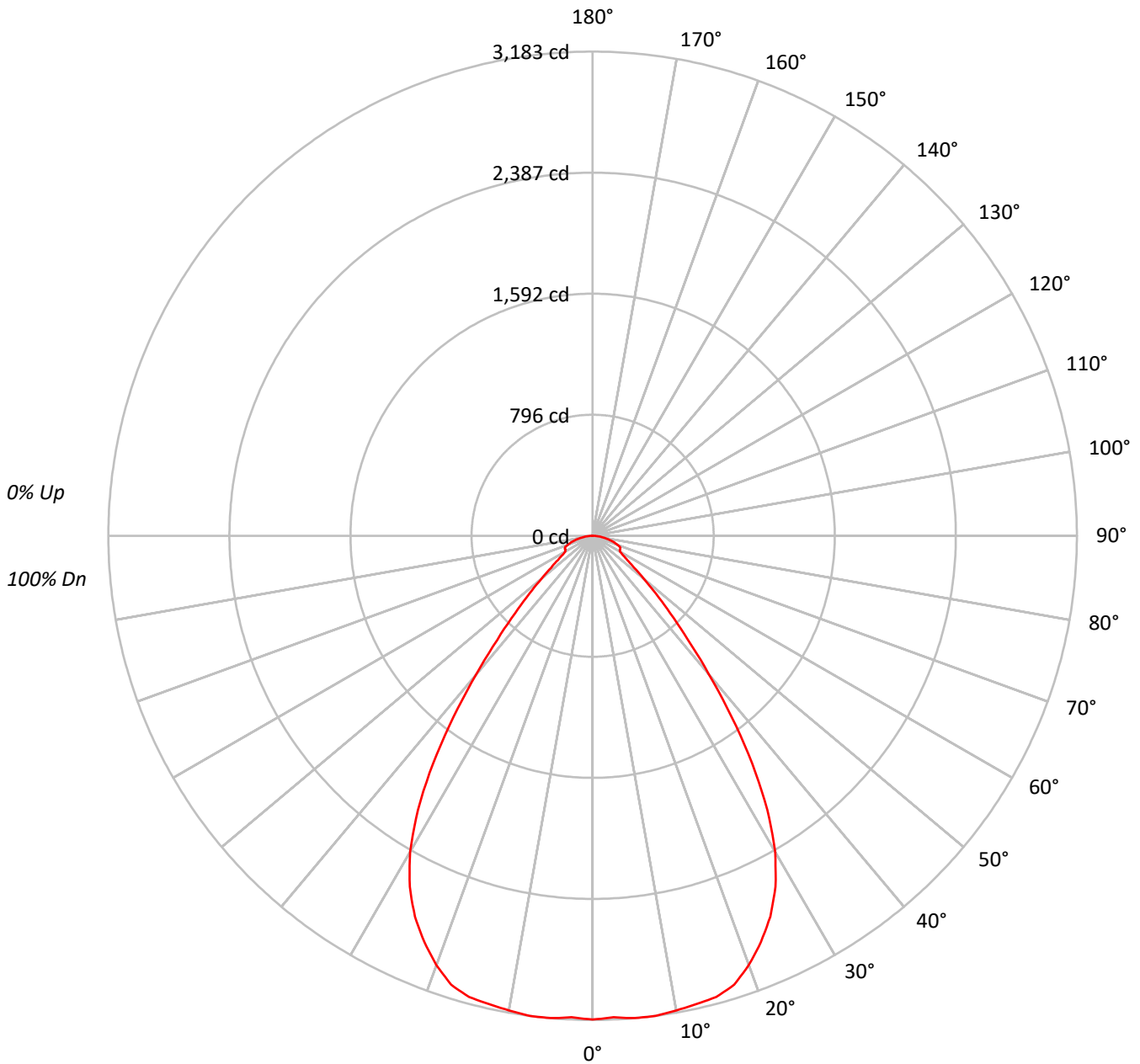
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	392276
5°	394146
10°	396850
15°	400827
20°	394139
25°	376008
30°	341626
35°	275556
40°	191191
45°	125507
50°	84106
55°	59869
60°	51114
65°	58781
70°	63004
75°	60667
80°	54695
85°	50382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	6.3
10°-20°	881.8	18.5
20°-30°	1259.8	26.4
30°-40°	1125.4	23.6
40°-50°	577.2	12.1
50°-60°	262.4	5.5
60°-70°	195.7	4.1
70°-80°	133.1	2.8
80°-90°	39.5	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°	2445.0	51.2
0°-40°	3570.4	74.7
0°-60°	4410.0	92.3
0°-90°	4778.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4778.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3180	
5°	3183	303
15°	3139	882
25°	2763	1260
35°	1830	1125
45°	720	577
55°	278	262
65°	201	196
75°	127	133
85°	36	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3180.3
2.5°	3168.5
5°	3183.3
7.5°	3183.3
10°	3168.5
12.5°	3153.7
15°	3138.9
17.5°	3094.5
20°	3002.7
22.5°	2890.2
25°	2762.8
27.5°	2602.9
30°	2398.6
32.5°	2138.0
35°	1830.0
37.5°	1501.3
40°	1187.4
42.5°	926.9
45°	719.5
47.5°	562.7
50°	438.3
52.5°	343.4
55°	278.4
57.5°	233.9
60°	207.2
62.5°	201.4
65°	201.4
67.5°	195.5
70°	174.7
72.5°	151.0
75°	127.3
77.5°	100.6
80°	77.0
82.5°	56.2
85°	35.6
87.5°	14.8
90°	0.0



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— 0°-180°







(END OF REPORT)