

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: P580796

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580796
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-HM44560935-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4216.7 lumens
Efficiency: N/A
Efficacy: 95.8 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

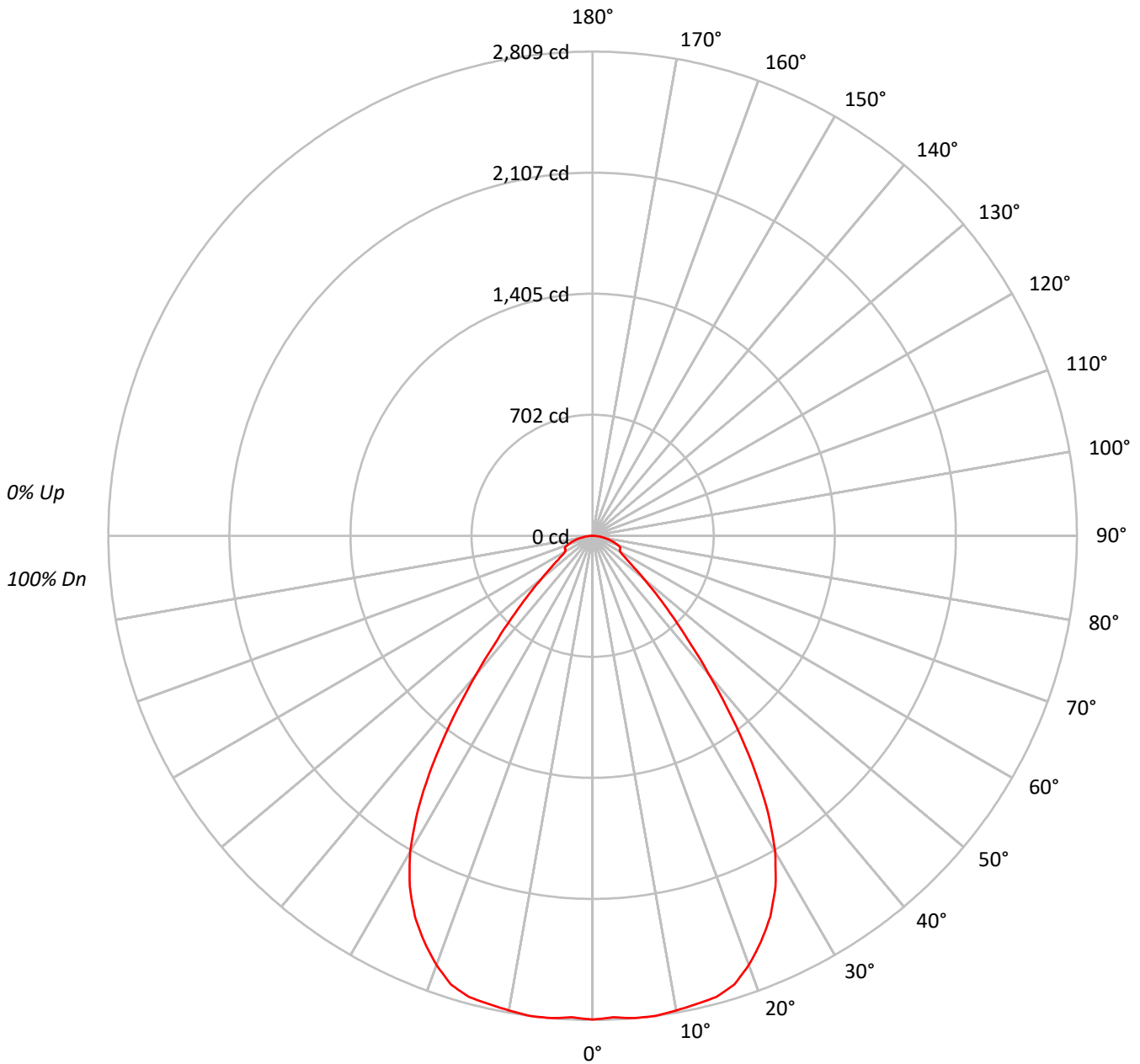
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580796

CATALOG NUMBER: HC445D010-HM44560935-41WDWB

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	346170
5°	347826
10°	350195
15°	353707
20°	347804
25°	331818
30°	301476
35°	243167
40°	168713
45°	110750
50°	74224
55°	52815
60°	45120
65°	51864
70°	55610
75°	53519
80°	48302
85°	44297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	6.3
10°-20°	778.1	18.5
20°-30°	1111.8	26.4
30°-40°	993.1	23.6
40°-50°	509.4	12.1
50°-60°	231.6	5.5
60°-70°	172.7	4.1
70°-80°	117.5	2.8
80°-90°	34.8	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°	2157.6	51.2
0°-40°	3150.7	74.7
0°-60°	3891.6	92.3
0°-90°	4216.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4216.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2806	
5°	2809	268
15°	2770	778
25°	2438	1112
35°	1615	993
45°	635	509
55°	246	232
65°	178	173
75°	112	118
85°	31	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2806.5
2.5°	2796.0
5°	2809.2
7.5°	2809.2
10°	2796.0
12.5°	2783.0
15°	2769.9
17.5°	2730.7
20°	2649.7
22.5°	2550.4
25°	2438.1
27.5°	2297.0
30°	2116.7
32.5°	1886.6
35°	1614.9
37.5°	1324.9
40°	1047.8
42.5°	817.9
45°	634.9
47.5°	496.5
50°	386.8
52.5°	303.2
55°	245.6
57.5°	206.4
60°	182.9
62.5°	177.7
65°	177.7
67.5°	172.5
70°	154.2
72.5°	133.3
75°	112.3
77.5°	88.9
80°	68.0
82.5°	49.7
85°	31.3
87.5°	13.0
90°	0.0



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— 0°-180°







(END OF REPORT)