

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: P592909

Luminaire Tested: **HC455D010-HM44560850-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592909  
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: HC455D010-HM44560850-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

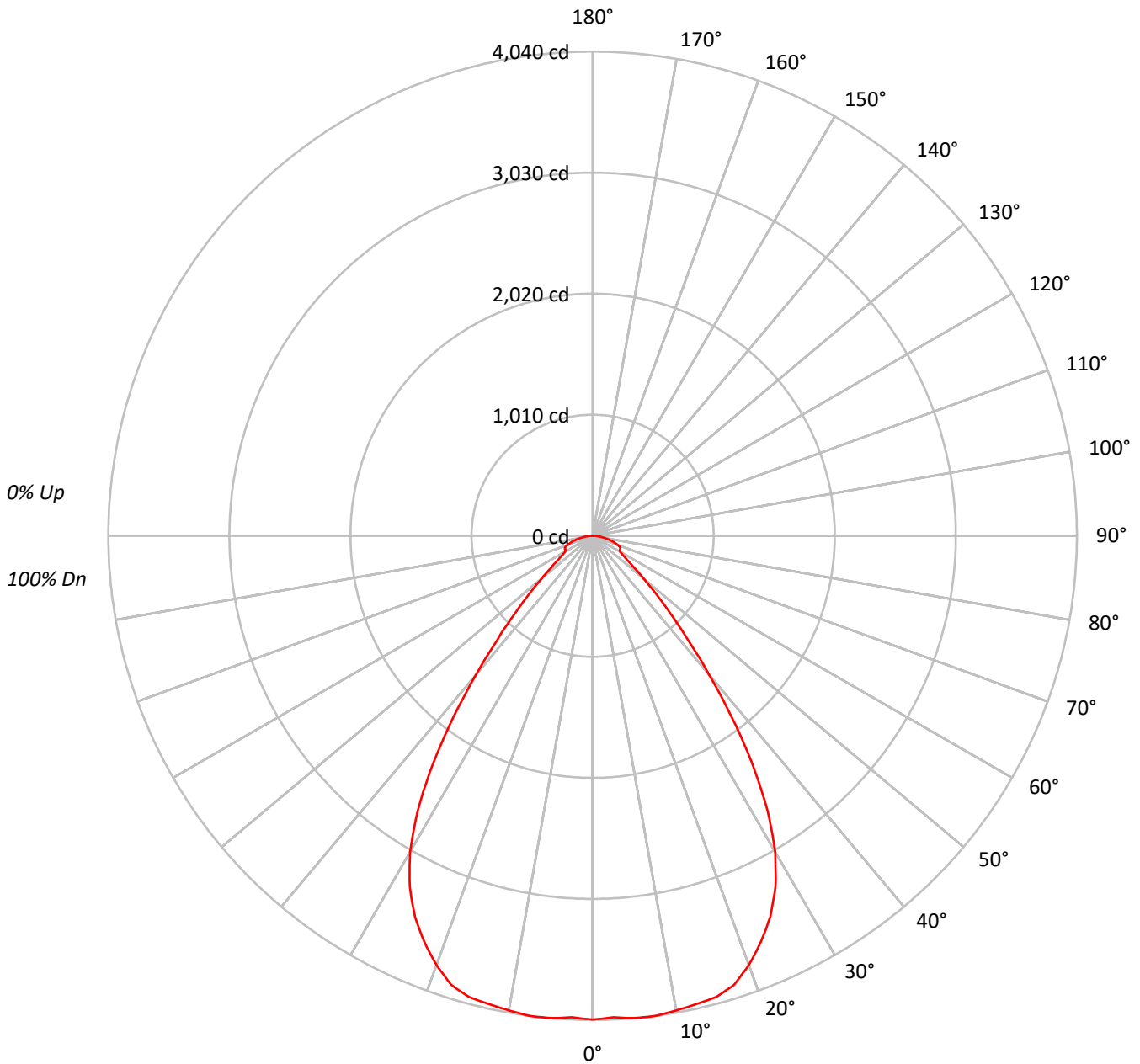
Lumens per Lamp: N/A  
Luminaire Lumens: 6064.6 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	497885
5°	500245
10°	503674
15°	508718
20°	500225
25°	477224
30°	433577
35°	349746
40°	242652
45°	159313
50°	106730
55°	75954
60°	64904
65°	74600
70°	79954
75°	77062
80°	69469
85°	63827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.0	6.3
10°-20°	1119.1	18.5
20°-30°	1599.0	26.4
30°-40°	1428.4	23.6
40°-50°	732.6	12.1
50°-60°	333.0	5.5
60°-70°	248.4	4.1
70°-80°	169.0	2.8
80°-90°	50.1	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°	3103.1	51.2
0°-40°	4531.5	74.7
0°-60°	5597.1	92.3
0°-90°	6064.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6064.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4036	
5°	4040	385
15°	3984	1119
25°	3506	1599
35°	2323	1428
45°	913	733
55°	353	333
65°	256	248
75°	162	169
85°	45	50
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4036.5
2.5°	4021.4
5°	4040.2
7.5°	4040.2
10°	4021.4
12.5°	4002.6
15°	3983.8
17.5°	3927.5
20°	3810.9
22.5°	3668.2
25°	3506.5
27.5°	3303.6
30°	3044.2
32.5°	2713.5
35°	2322.7
37.5°	1905.5
40°	1507.0
42.5°	1176.4
45°	913.3
47.5°	714.0
50°	556.2
52.5°	435.9
55°	353.2
57.5°	296.9
60°	263.1
62.5°	255.6
65°	255.6
67.5°	248.1
70°	221.7
72.5°	191.7
75°	161.7
77.5°	127.8
80°	97.8
82.5°	71.4
85°	45.1
87.5°	18.8
90°	0.0



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— 0°-180°







(END OF REPORT)