

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: P580490

Luminaire Tested: **HC435D010-HM43040930-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580490  
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: HC435D010-HM43040930-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

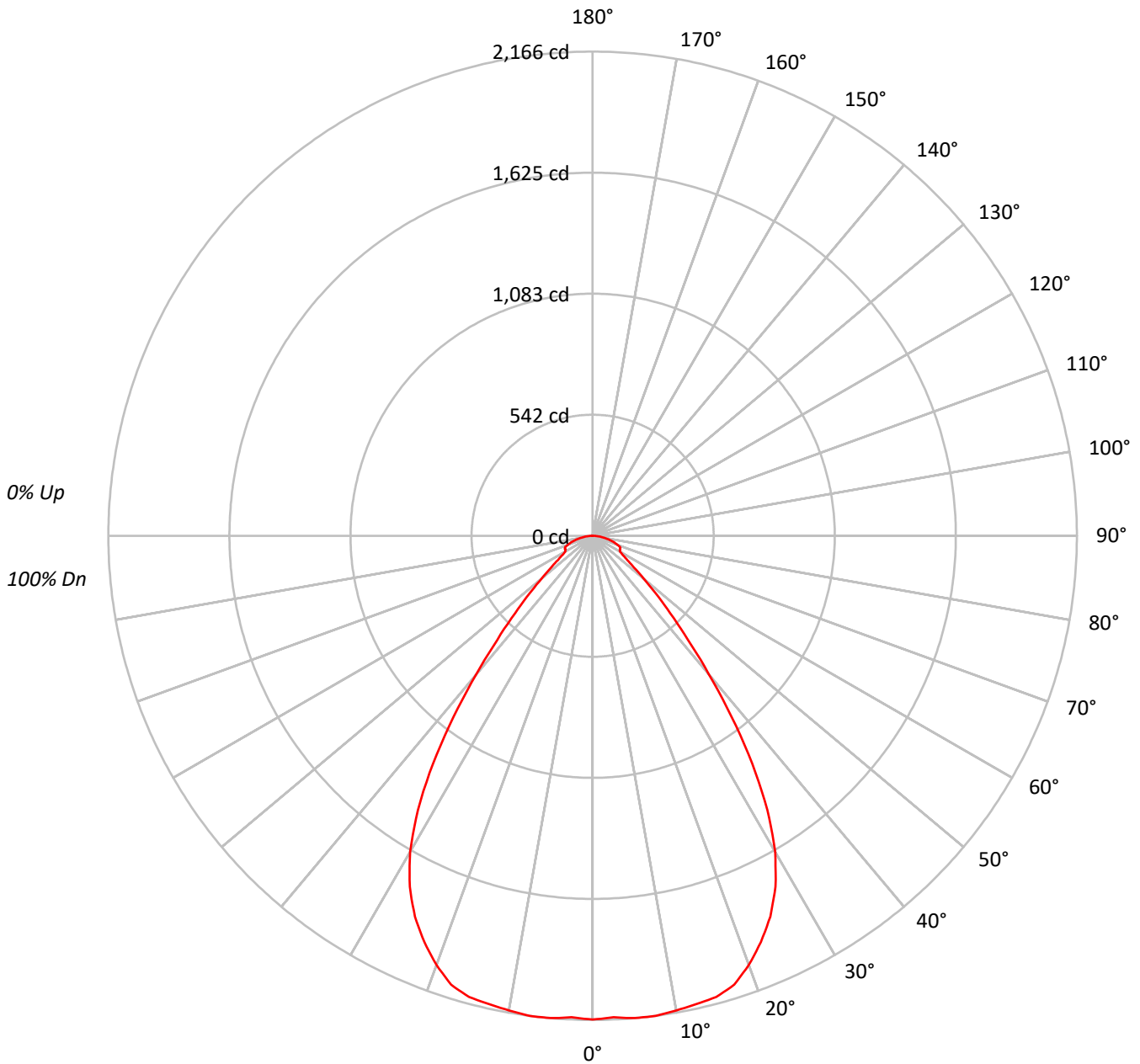
Lumens per Lamp: N/A  
Luminaire Lumens: 3251.6 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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				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°	266932
5°	268212
10°	270048
15°	272748
20°	268194
25°	255862
30°	232470
35°	187514
40°	130101
45°	85404
50°	57222
55°	40730
60°	34808
65°	39985
70°	42880
75°	41319
80°	37221
85°	34249



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.4	6.3
10°-20°	600.0	18.5
20°-30°	857.3	26.4
30°-40°	765.8	23.6
40°-50°	392.8	12.1
50°-60°	178.6	5.5
60°-70°	133.2	4.1
70°-80°	90.6	2.8
80°-90°	26.9	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°	1663.7	51.2
0°-40°	2429.6	74.7
0°-60°	3000.9	92.3
0°-90°	3251.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3251.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2164	
5°	2166	206
15°	2136	600
25°	1880	857
35°	1245	766
45°	490	393
55°	189	179
65°	137	133
75°	87	91
85°	24	27
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2164.1
2.5°	2156.1
5°	2166.2
7.5°	2166.2
10°	2156.1
12.5°	2146.1
15°	2135.9
17.5°	2105.7
20°	2043.2
22.5°	1966.7
25°	1880.0
27.5°	1771.2
30°	1632.2
32.5°	1454.9
35°	1245.3
37.5°	1021.6
40°	808.0
42.5°	630.7
45°	489.6
47.5°	382.8
50°	298.2
52.5°	233.8
55°	189.4
57.5°	159.2
60°	141.1
62.5°	137.0
65°	137.0
67.5°	133.0
70°	118.9
72.5°	102.7
75°	86.7
77.5°	68.6
80°	52.4
82.5°	38.3
85°	24.2
87.5°	10.1
90°	0.0



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— 0°-180°







(END OF REPORT)