

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: P580994

Luminaire Tested: **HC405D010-HM40525830-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580994  
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: HC405D010-HM40525830-41WDWB  
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: 697.9 lumens  
Efficiency: N/A  
Efficacy: 116.3 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

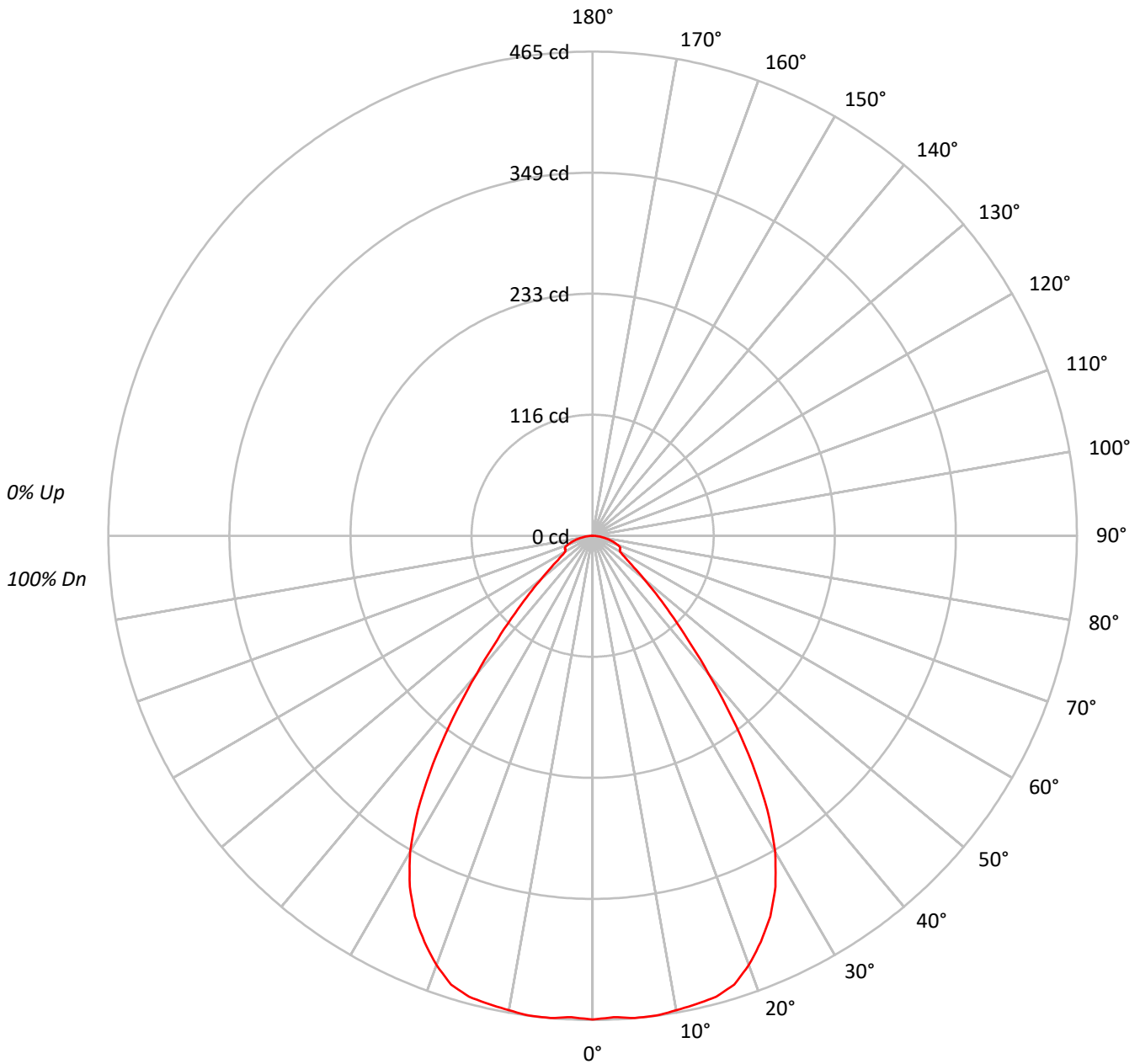
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	57306
5°	57562
10°	57952
15°	58536
20°	57571
25°	54915
30°	49907
35°	40249
40°	27920
45°	18333
50°	12281
55°	8731
60°	7475
65°	8581
70°	9196
75°	8864
80°	7956
85°	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.3	6.3
10°-20°	128.8	18.5
20°-30°	184.0	26.4
30°-40°	164.4	23.6
40°-50°	84.3	12.1
50°-60°	38.3	5.5
60°-70°	28.6	4.1
70°-80°	19.4	2.8
80°-90°	5.8	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°	357.1	51.2
0°-40°	521.5	74.7
0°-60°	644.1	92.3
0°-90°	697.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	465	
5°	465	44
15°	458	129
25°	404	184
35°	267	164
45°	105	84
55°	41	38
65°	29	29
75°	19	19
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	464.6
2.5°	462.7
5°	464.9
7.5°	464.9
10°	462.7
12.5°	460.6
15°	458.4
17.5°	452.0
20°	438.6
22.5°	422.1
25°	403.5
27.5°	380.1
30°	350.4
32.5°	312.2
35°	267.3
37.5°	219.3
40°	173.4
42.5°	135.4
45°	105.1
47.5°	82.2
50°	64.0
52.5°	50.2
55°	40.6
57.5°	34.2
60°	30.3
62.5°	29.4
65°	29.4
67.5°	28.5
70°	25.5
72.5°	22.0
75°	18.6
77.5°	14.8
80°	11.2
82.5°	8.2
85°	5.2
87.5°	2.2
90°	0.0



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— 0°-180°







(END OF REPORT)