

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: P592531

Luminaire Tested: **HC405D010-HM40525850-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592531  
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-HM40525850-41WDWB  
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: 743.4 lumens  
Efficiency: N/A  
Efficacy: 123.9 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

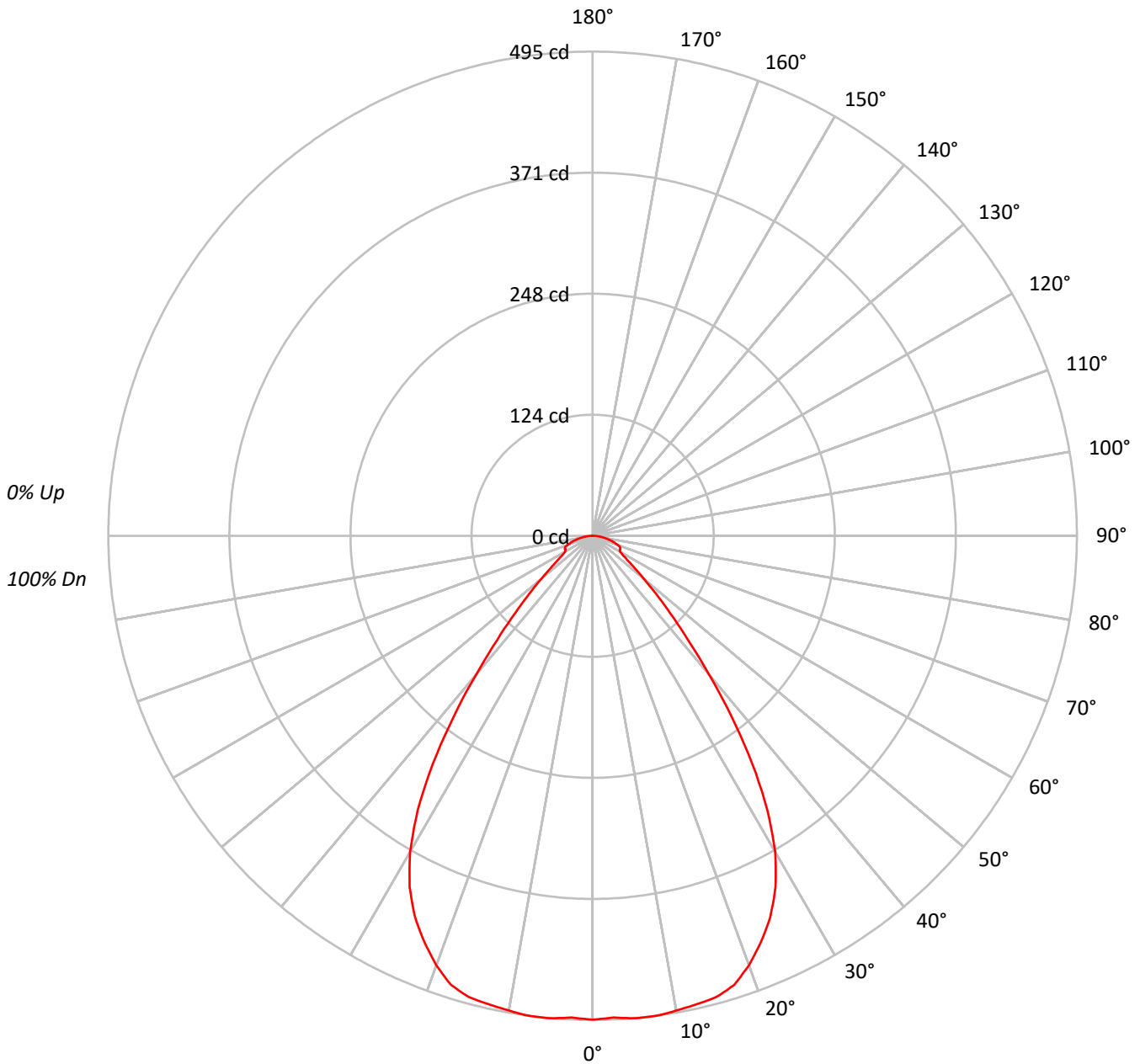
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	61019
5°	61314
10°	61735
15°	62354
20°	61325
25°	58494
30°	53154
35°	42869
40°	29756
45°	19520
50°	13087
55°	9333
60°	7943
65°	9135
70°	9773
75°	9484
80°	8524
85°	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.2	6.3
10°-20°	137.2	18.5
20°-30°	196.0	26.4
30°-40°	175.1	23.6
40°-50°	89.8	12.1
50°-60°	40.9	5.5
60°-70°	30.4	4.1
70°-80°	20.7	2.8
80°-90°	6.1	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°	380.4	51.2
0°-40°	555.5	74.7
0°-60°	686.1	92.3
0°-90°	743.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	743.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	495	
5°	495	47
15°	488	137
25°	430	196
35°	285	175
45°	112	90
55°	43	41
65°	31	30
75°	20	21
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	494.7
2.5°	492.9
5°	495.2
7.5°	495.2
10°	492.9
12.5°	490.7
15°	488.3
17.5°	481.5
20°	467.2
22.5°	449.6
25°	429.8
27.5°	405.0
30°	373.2
32.5°	332.7
35°	284.7
37.5°	233.6
40°	184.8
42.5°	144.1
45°	111.9
47.5°	87.5
50°	68.2
52.5°	53.5
55°	43.4
57.5°	36.4
60°	32.2
62.5°	31.3
65°	31.3
67.5°	30.4
70°	27.1
72.5°	23.5
75°	19.9
77.5°	15.7
80°	12.0
82.5°	8.7
85°	5.6
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)