

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: P581057

Luminaire Tested: **HC405D010-HM40525927-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC405D010-HM40525927-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 469.9 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

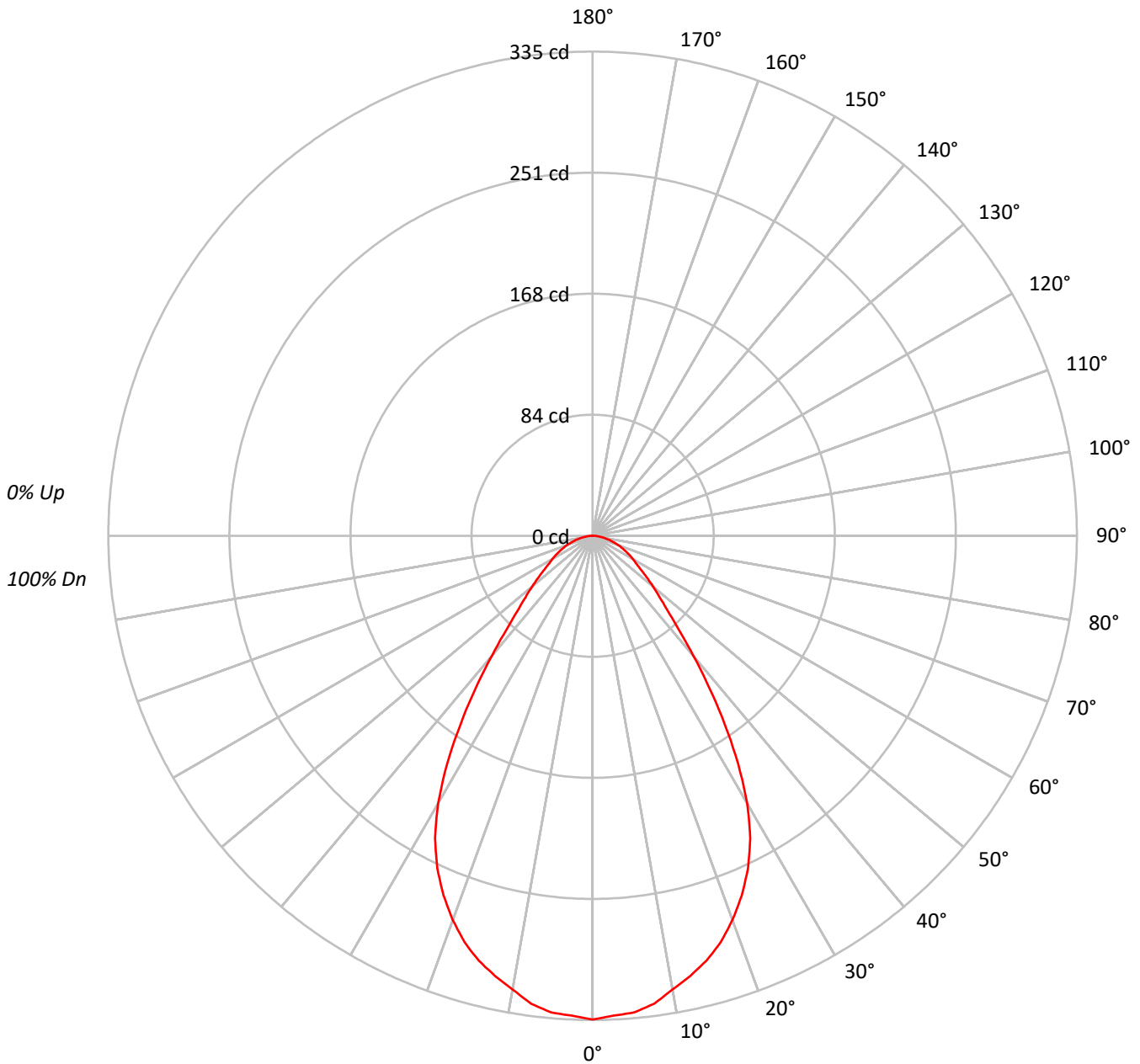
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20																	
RC	80									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	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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89																											
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																											
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71																											
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64																											
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58																											
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52																											
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48																											
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44																											
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41																											
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38																											

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

	0°
0°	41284
5°	40983
10°	39917
15°	38858
20°	37121
25°	34582
30°	30451
35°	24017
40°	17438
45°	12804
50°	10439
55°	8731
60°	7919
65°	7297
70°	6780
75°	6148
80°	5540
85°	4812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.2	6.6
10°-20°	85.4	18.2
20°-30°	115.7	24.6
30°-40°	99.3	21.1
40°-50°	58.6	12.5
50°-60°	37.1	7.9
60°-70°	25.0	5.3
70°-80°	13.7	2.9
80°-90°	3.8	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°	232.3	49.4
0°-40°	331.6	70.6
0°-60°	427.4	90.9
0°-90°	469.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	469.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	335	
5°	331	31
15°	304	85
25°	254	116
35°	160	99
45°	73	59
55°	41	37
65°	25	25
75°	13	14
85°	3	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	334.7
2.5°	332.3
5°	331.0
7.5°	326.5
10°	318.7
12.5°	311.9
15°	304.3
17.5°	294.8
20°	282.8
22.5°	269.4
25°	254.1
27.5°	236.1
30°	213.8
32.5°	187.5
35°	159.5
37.5°	132.6
40°	108.3
42.5°	88.1
45°	73.4
47.5°	62.9
50°	54.4
52.5°	47.1
55°	40.6
57.5°	35.5
60°	32.1
62.5°	28.7
65°	25.0
67.5°	21.9
70°	18.8
72.5°	15.7
75°	12.9
77.5°	10.2
80°	7.8
82.5°	5.4
85°	3.4
87.5°	1.4
90°	0.0



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— 0°-180°







(END OF REPORT)