

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: P581058

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC405D010-HM40525927-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 482.9 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

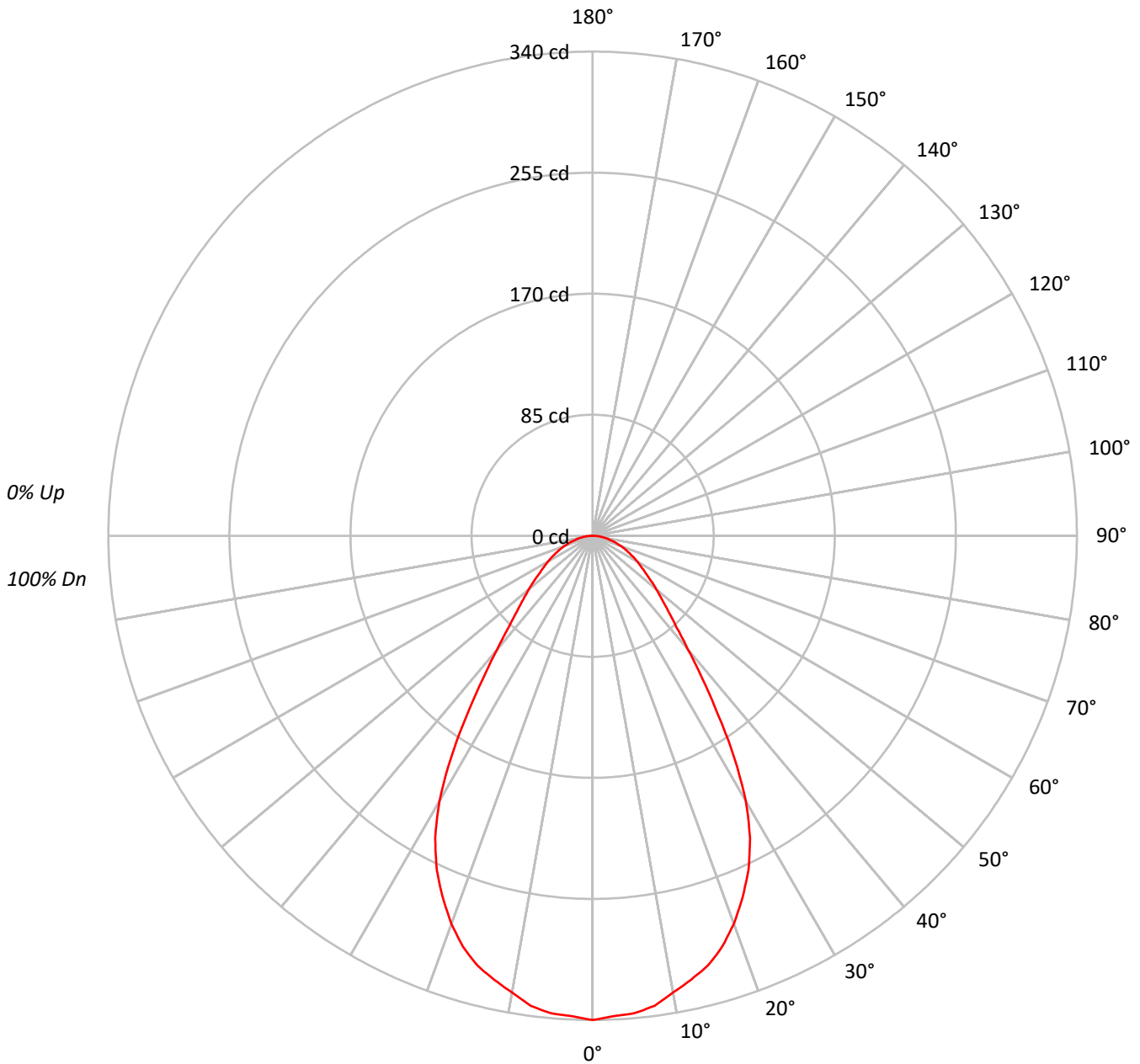
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	41938
5°	41677
10°	40793
15°	39905
20°	38053
25°	35222
30°	30636
35°	23144
40°	16778
45°	13100
50°	11187
55°	9699
60°	8930
65°	8172
70°	7646
75°	6958
80°	6535
85°	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.8	6.6
10°-20°	87.5	18.1
20°-30°	117.7	24.4
30°-40°	96.8	20.0
40°-50°	59.4	12.3
50°-60°	41.1	8.5
60°-70°	28.0	5.8
70°-80°	15.6	3.2
80°-90°	5.0	1.0
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°	237.0	49.1
0°-40°	333.8	69.1
0°-60°	434.3	89.9
0°-90°	482.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	340	
5°	337	32
15°	312	88
25°	259	118
35°	154	97
45°	75	59
55°	45	41
65°	28	28
75°	15	16
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	340.0
2.5°	337.7
5°	336.6
7.5°	332.9
10°	325.7
12.5°	319.3
15°	312.5
17.5°	302.6
20°	289.9
22.5°	274.9
25°	258.8
27.5°	239.4
30°	215.1
32.5°	185.5
35°	153.7
37.5°	126.3
40°	104.2
42.5°	87.1
45°	75.1
47.5°	65.9
50°	58.3
52.5°	51.5
55°	45.1
57.5°	40.3
60°	36.2
62.5°	32.1
65°	28.0
67.5°	24.6
70°	21.2
72.5°	17.7
75°	14.6
77.5°	11.6
80°	9.2
82.5°	6.8
85°	4.4
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)