

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: P581533

Luminaire Tested: **HC407D010-HM40525940-41WDBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC407D010-HM40525940-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 711.5 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

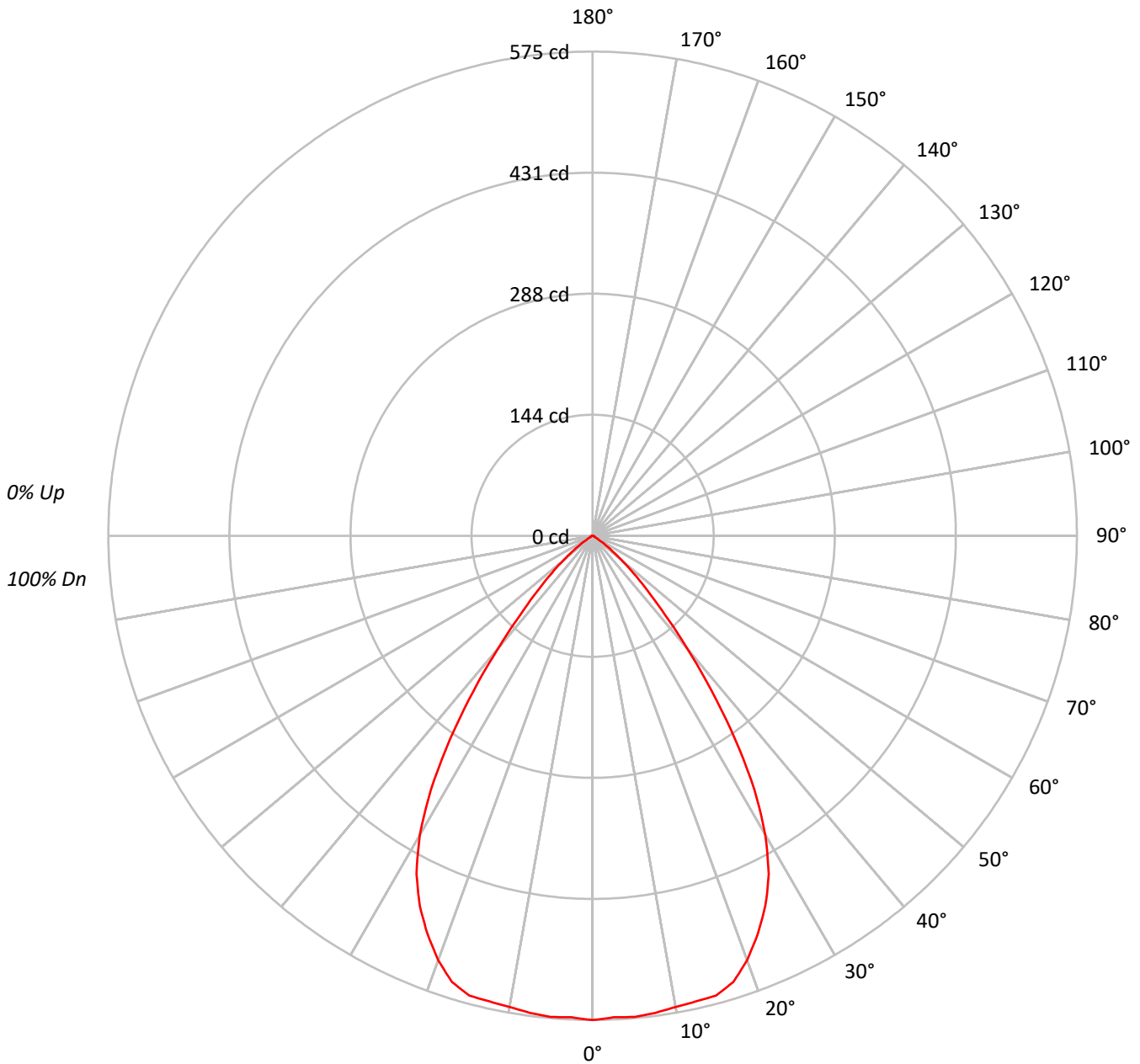
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49			49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45

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

	0°
0°	70936
5°	71021
10°	71154
15°	72200
20°	70383
25°	66034
30°	58409
35°	44420
40°	27985
45°	16066
50°	8520
55°	3548
60°	962
65°	788
70°	577
75°	524
80°	426
85°	849



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.6	7.7
10°-20°	158.3	22.3
20°-30°	220.9	31.0
30°-40°	181.8	25.6
40°-50°	74.9	10.5
50°-60°	16.9	2.4
60°-70°	2.7	0.4
70°-80°	1.0	0.1
80°-90°	0.4	0.1
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°	433.7	61.0
0°-40°	615.5	86.5
0°-60°	707.3	99.4
0°-90°	711.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	575	
5°	574	55
15°	565	158
25°	485	221
35°	295	182
45°	92	75
55°	16	17
65°	3	3
75°	1	1
85°	1	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	575.1
2.5°	572.4
5°	573.6
7.5°	571.4
10°	568.1
12.5°	566.4
15°	565.4
17.5°	555.5
20°	536.2
22.5°	512.1
25°	485.2
27.5°	452.9
30°	410.1
32.5°	357.6
35°	295.0
37.5°	231.9
40°	173.8
42.5°	126.7
45°	92.1
47.5°	65.8
50°	44.4
52.5°	28.0
55°	16.5
57.5°	8.2
60°	3.9
62.5°	3.3
65°	2.7
67.5°	2.2
70°	1.6
72.5°	1.1
75°	1.1
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)