

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: P592947

Luminaire Tested: **HC460D010-HM44560850-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC460D010-HM44560850-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5426.1 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

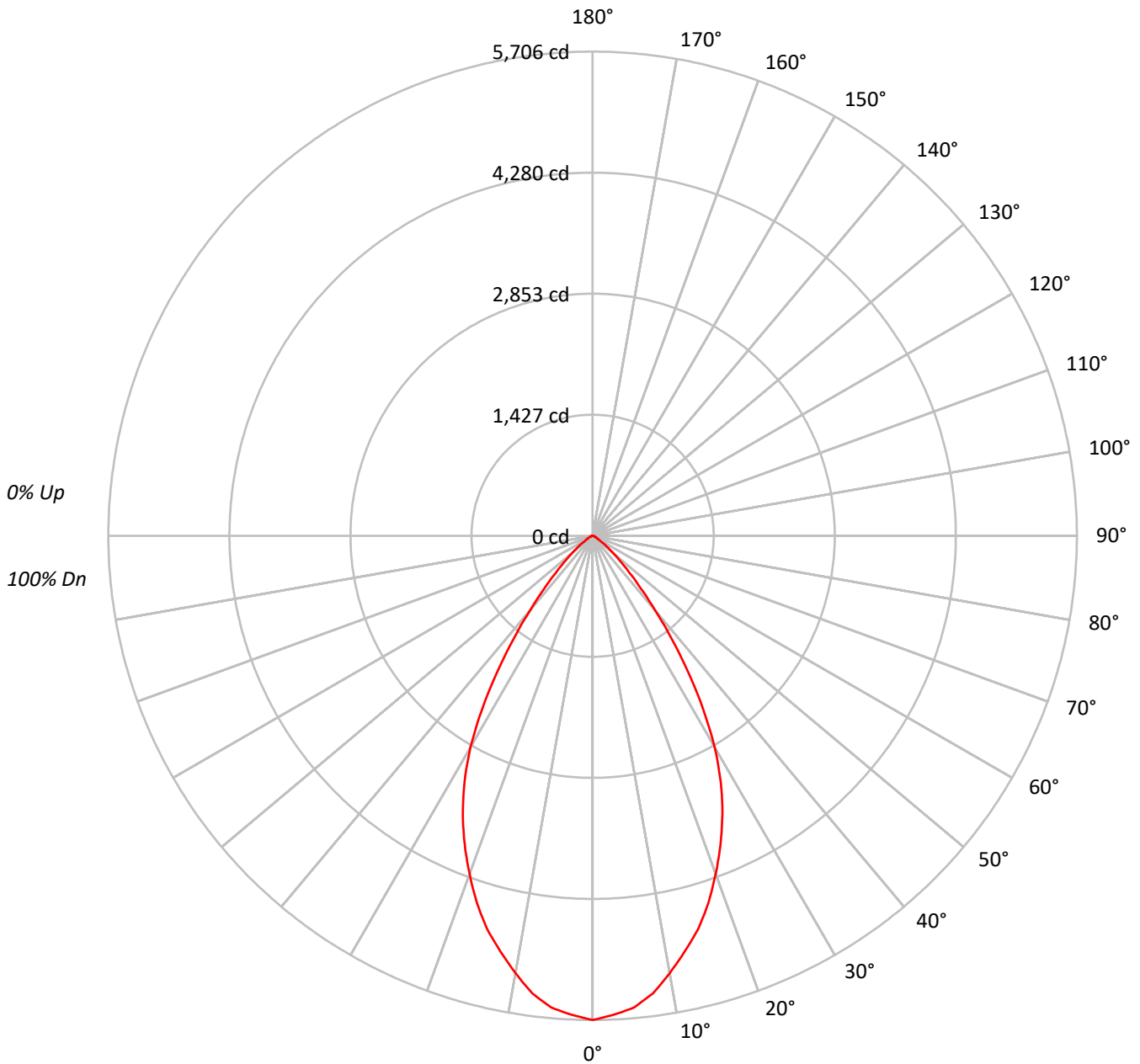
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

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

	0°
0°	703785
5°	690984
10°	655413
15°	612830
20°	556589
25°	492507
30°	409664
35°	295402
40°	184364
45°	106354
50°	60005
55°	28580
60°	16380
65°	12550
70°	8475
75°	5576
80°	5540
85°	5519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.6	9.6
10°-20°	1338.8	24.7
20°-30°	1646.6	30.3
30°-40°	1222.8	22.5
40°-50°	497.2	9.2
50°-60°	137.7	2.5
60°-70°	42.9	0.8
70°-80°	14.4	0.3
80°-90°	4.2	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°	3507.0	64.6
0°-40°	4729.8	87.2
0°-60°	5364.6	98.9
0°-90°	5426.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5426.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5706	
5°	5581	522
15°	4799	1339
25°	3619	1647
35°	1962	1223
45°	610	497
55°	133	138
65°	43	43
75°	12	14
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5705.8
2.5°	5651.1
5°	5580.7
7.5°	5440.0
10°	5232.9
12.5°	5017.9
15°	4799.1
17.5°	4537.3
20°	4240.3
22.5°	3939.3
25°	3618.8
27.5°	3271.1
30°	2876.3
32.5°	2426.9
35°	1961.8
37.5°	1524.2
40°	1145.0
42.5°	836.3
45°	609.7
47.5°	437.7
50°	312.7
52.5°	215.0
55°	132.9
57.5°	86.0
60°	66.4
62.5°	54.7
65°	43.0
67.5°	31.2
70°	23.5
72.5°	19.5
75°	11.7
77.5°	7.8
80°	7.8
82.5°	3.9
85°	3.9
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)