

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: P592944

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592944  
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: HC460D010-HM44560850-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5070.4 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

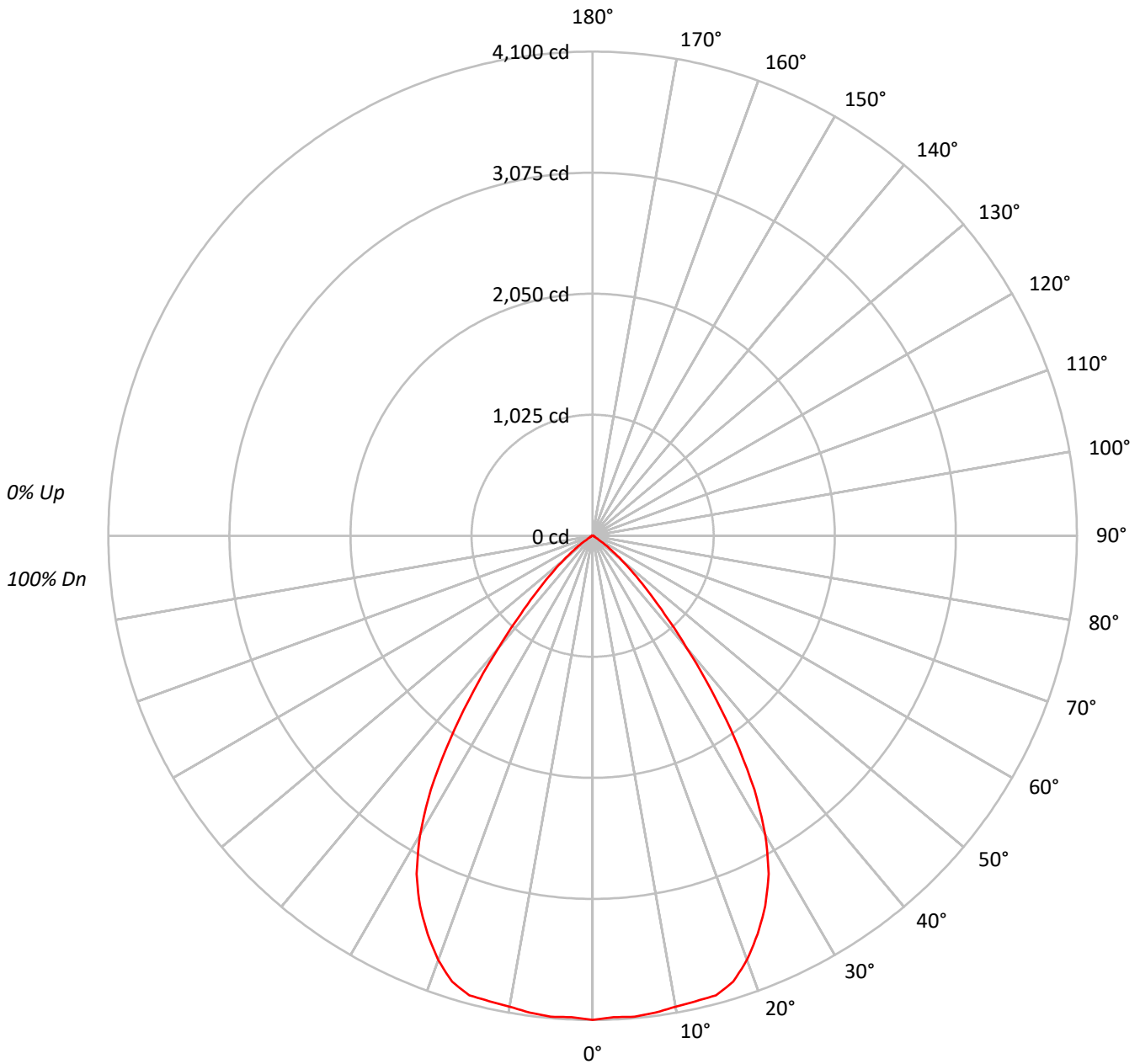
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	505668
5°	506151
10°	507093
15°	514516
20°	501695
25°	470718
30°	416343
35°	316589
40°	199483
45°	114535
50°	60734
55°	25203
60°	6759
65°	5691
70°	4219
75°	3717
80°	2770
85°	5519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.8	7.7
10°-20°	1128.2	22.3
20°-30°	1574.5	31.1
30°-40°	1295.7	25.6
40°-50°	533.7	10.5
50°-60°	120.3	2.4
60°-70°	19.3	0.4
70°-80°	7.2	0.1
80°-90°	2.7	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°	3091.5	61.0
0°-40°	4387.2	86.5
0°-60°	5041.2	99.4
0°-90°	5070.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5070.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4100	
5°	4088	389
15°	4029	1128
25°	3459	1575
35°	2102	1296
45°	657	534
55°	117	120
65°	20	19
75°	8	7
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4099.6
2.5°	4080.0
5°	4087.9
7.5°	4072.2
10°	4048.7
12.5°	4037.0
15°	4029.2
17.5°	3958.8
20°	3822.1
22.5°	3650.1
25°	3458.7
27.5°	3228.0
30°	2923.2
32.5°	2548.0
35°	2102.5
37.5°	1653.1
40°	1238.9
42.5°	902.7
45°	656.6
47.5°	469.0
50°	316.5
52.5°	199.3
55°	117.2
57.5°	58.7
60°	27.4
62.5°	23.5
65°	19.5
67.5°	15.7
70°	11.7
72.5°	7.8
75°	7.8
77.5°	3.9
80°	3.9
82.5°	3.9
85°	3.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)