

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: P581300

Luminaire Tested: **HC460D010-HM44560835-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC460D010-HM44560835-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5534.8 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

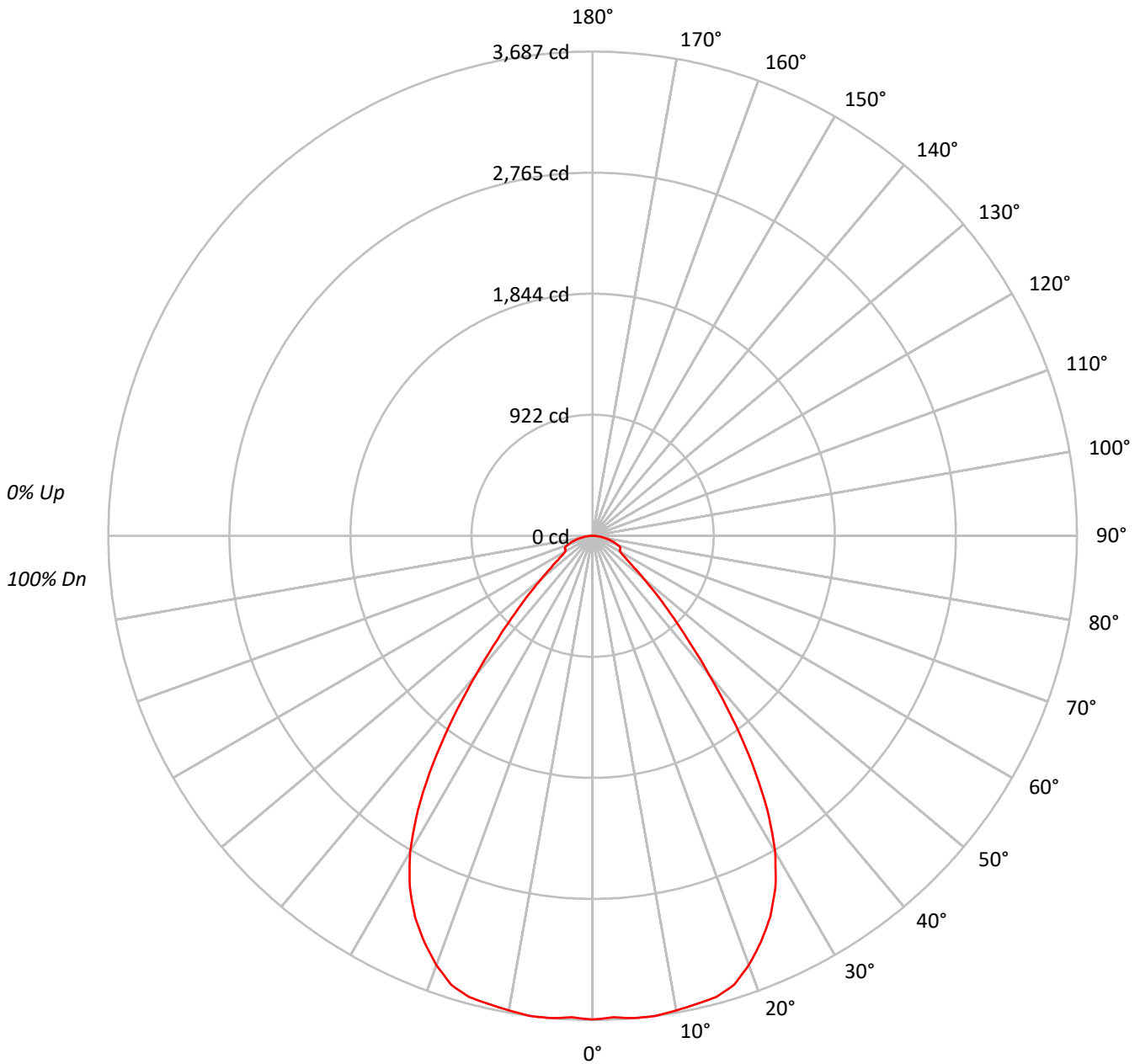
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65				65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				39

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

	0°
0°	454381
5°	456537
10°	459674
15°	464280
20°	456528
25°	435524
30°	395706
35°	319179
40°	221462
45°	145393
50°	97404
55°	69331
60°	59255
65°	68091
70°	72993
75°	70294
80°	63360
85°	58308



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.4	6.3
10°-20°	1021.4	18.5
20°-30°	1459.3	26.4
30°-40°	1303.6	23.6
40°-50°	668.6	12.1
50°-60°	303.9	5.5
60°-70°	226.7	4.1
70°-80°	154.3	2.8
80°-90°	45.7	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°	2832.0	51.2
0°-40°	4135.6	74.7
0°-60°	5108.1	92.3
0°-90°	5534.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5534.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3684	
5°	3687	351
15°	3636	1021
25°	3200	1459
35°	2120	1304
45°	834	669
55°	322	304
65°	233	227
75°	148	154
85°	41	46
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3683.8
2.5°	3670.1
5°	3687.2
7.5°	3687.2
10°	3670.1
12.5°	3652.9
15°	3635.8
17.5°	3584.3
20°	3478.0
22.5°	3347.7
25°	3200.1
27.5°	3014.9
30°	2778.3
32.5°	2476.4
35°	2119.7
37.5°	1739.0
40°	1375.4
42.5°	1073.6
45°	833.5
47.5°	651.6
50°	507.6
52.5°	397.8
55°	322.4
57.5°	270.9
60°	240.2
62.5°	233.3
65°	233.3
67.5°	226.4
70°	202.4
72.5°	175.0
75°	147.5
77.5°	116.6
80°	89.2
82.5°	65.2
85°	41.2
87.5°	17.1
90°	0.0



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— 0°-180°







(END OF REPORT)