

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: P581308

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC460D010-HM44560835-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4951.8 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

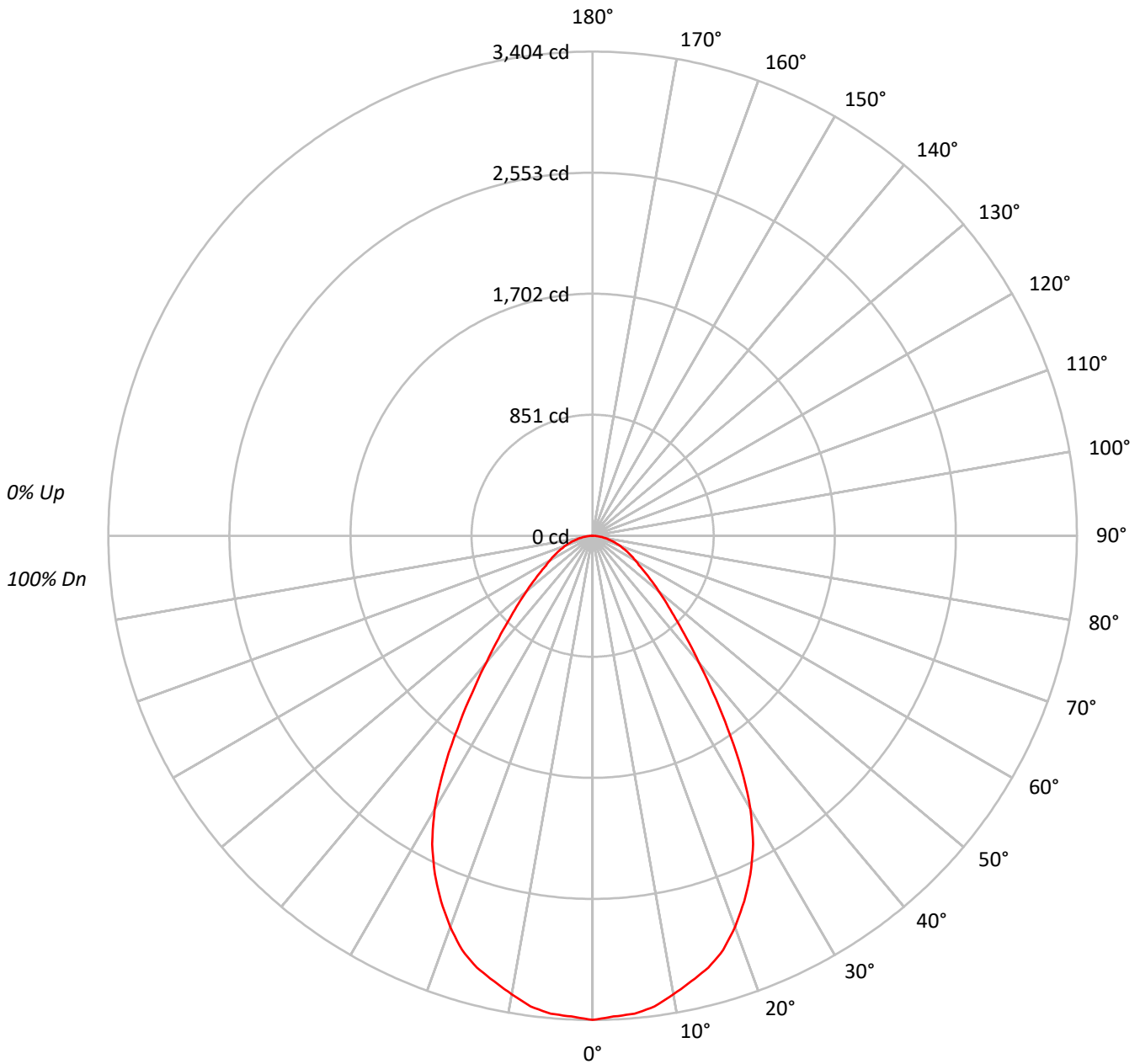
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

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

	0°
0°	419807
5°	417597
10°	409951
15°	401325
20°	384150
25°	357213
30°	316174
35°	249521
40°	186731
45°	143631
50°	116536
55°	96663
60°	85479
65°	79123
70°	73029
75°	67054
80°	60874
85°	48542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.9	6.4
10°-20°	881.4	17.8
20°-30°	1196.7	24.2
30°-40°	1036.7	20.9
40°-50°	650.8	13.1
50°-60°	409.4	8.3
60°-70°	269.0	5.4
70°-80°	148.4	3.0
80°-90°	40.6	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°	2397.0	48.4
0°-40°	3433.6	69.3
0°-60°	4493.9	90.8
0°-90°	4951.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3404	
5°	3373	319
15°	3143	881
25°	2625	1197
35°	1657	1037
45°	823	651
55°	450	409
65°	271	269
75°	141	148
85°	34	41
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3403.5
2.5°	3383.0
5°	3372.7
7.5°	3338.3
10°	3273.1
12.5°	3208.0
15°	3142.8
17.5°	3053.6
20°	2926.6
22.5°	2782.6
25°	2624.7
27.5°	2442.9
30°	2219.9
32.5°	1948.8
35°	1657.1
37.5°	1389.6
40°	1159.7
42.5°	977.9
45°	823.4
47.5°	706.8
50°	607.3
52.5°	521.5
55°	449.5
57.5°	387.7
60°	346.5
62.5°	308.7
65°	271.1
67.5°	233.3
70°	202.5
72.5°	168.1
75°	140.7
77.5°	109.8
80°	85.7
82.5°	58.3
85°	34.3
87.5°	13.8
90°	0.0



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— 0°-180°







(END OF REPORT)