

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: P581346

Luminaire Tested: **HC460D010-HM44560927-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC460D010-HM44560927-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3764.3 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

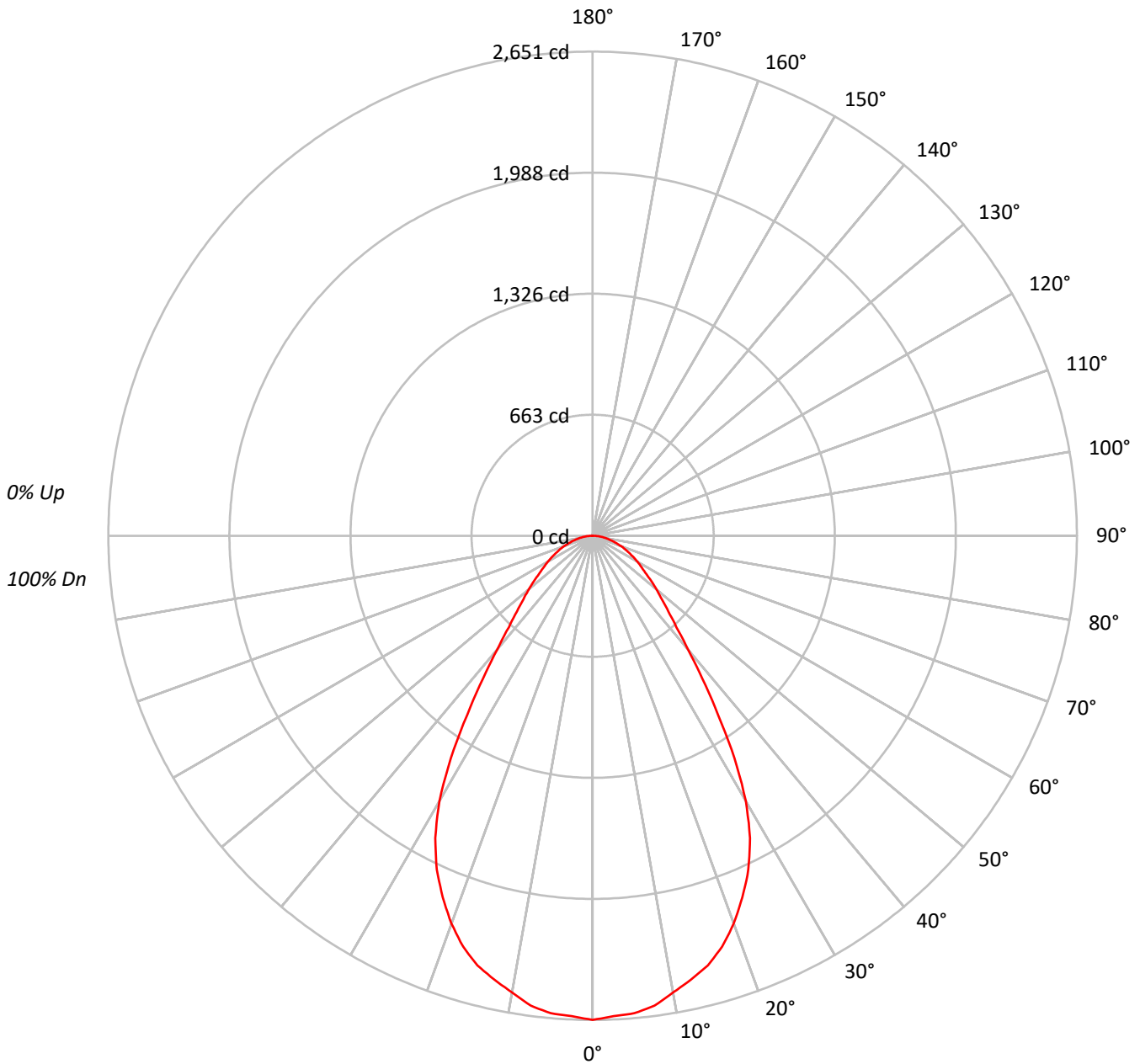
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	326965
5°	324920
10°	318006
15°	310967
20°	296599
25°	274562
30°	238822
35°	180346
40°	130697
45°	102133
50°	87330
55°	75546
60°	69592
65°	63713
70°	59505
75°	54567
80°	51072
85°	48967



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.8	6.6
10°-20°	682.1	18.1
20°-30°	917.3	24.4
30°-40°	754.3	20.0
40°-50°	463.2	12.3
50°-60°	320.5	8.5
60°-70°	218.5	5.8
70°-80°	121.8	3.2
80°-90°	38.7	1.0
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°	1847.3	49.1
0°-40°	2601.5	69.1
0°-60°	3385.3	89.9
0°-90°	3764.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3764.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2651	
5°	2624	248
15°	2435	682
25°	2017	917
35°	1198	754
45°	586	463
55°	351	321
65°	218	219
75°	114	122
85°	35	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2650.8
2.5°	2632.2
5°	2624.2
7.5°	2595.0
10°	2539.0
12.5°	2488.5
15°	2435.2
17.5°	2358.1
20°	2259.6
22.5°	2142.5
25°	2017.4
27.5°	1865.7
30°	1676.8
32.5°	1445.2
35°	1197.7
37.5°	984.7
40°	811.7
42.5°	678.7
45°	585.5
47.5°	513.7
50°	455.1
52.5°	401.9
55°	351.3
57.5°	314.0
60°	282.1
62.5°	250.2
65°	218.3
67.5°	191.6
70°	165.0
72.5°	138.4
75°	114.5
77.5°	90.5
80°	71.9
82.5°	53.2
85°	34.6
87.5°	18.6
90°	0.0



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— 0°-180°







(END OF REPORT)