

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: P581328

Luminaire Tested: **HC460D010-HM44560840-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581328  
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-HM44560840-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5527.8 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

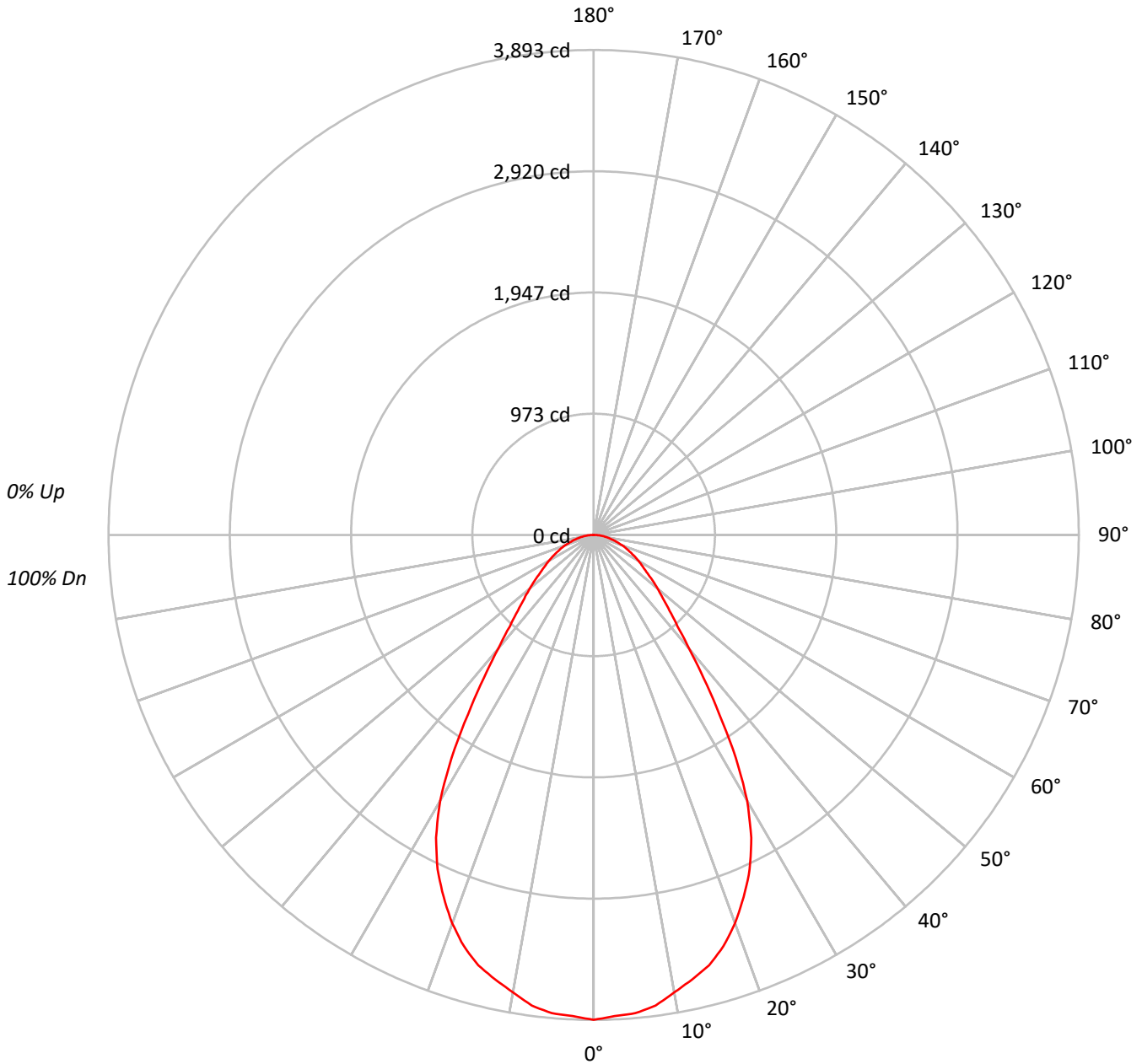
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	480135
5°	477140
10°	466989
15°	456656
20°	435539
25°	403187
30°	350684
35°	264835
40°	191948
45°	149998
50°	128241
55°	110943
60°	102204
65°	93541
70°	87383
75°	80112
80°	74939
85°	71894



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.0	6.6
10°-20°	1001.7	18.1
20°-30°	1347.0	24.4
30°-40°	1107.6	20.0
40°-50°	680.2	12.3
50°-60°	470.7	8.5
60°-70°	320.9	5.8
70°-80°	178.8	3.2
80°-90°	56.9	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°	2712.7	49.1
0°-40°	3820.3	69.1
0°-60°	4971.2	89.9
0°-90°	5527.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5527.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3893	
5°	3854	364
15°	3576	1002
25°	2962	1347
35°	1759	1108
45°	860	680
55°	516	471
65°	320	321
75°	168	179
85°	51	57
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3892.6
2.5°	3865.3
5°	3853.6
7.5°	3810.6
10°	3728.5
12.5°	3654.3
15°	3576.1
17.5°	3462.7
20°	3318.1
22.5°	3146.2
25°	2962.5
27.5°	2739.7
30°	2462.2
32.5°	2122.2
35°	1758.8
37.5°	1446.1
40°	1192.1
42.5°	996.6
45°	859.9
47.5°	754.3
50°	668.3
52.5°	590.2
55°	515.9
57.5°	461.1
60°	414.3
62.5°	367.4
65°	320.5
67.5°	281.4
70°	242.3
72.5°	203.3
75°	168.1
77.5°	132.9
80°	105.5
82.5°	78.2
85°	50.8
87.5°	27.4
90°	0.0



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— 0°-180°







(END OF REPORT)