

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: P581393

Luminaire Tested: **HC460D010-HM44560940-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC460D010-HM44560940-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4769.4 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

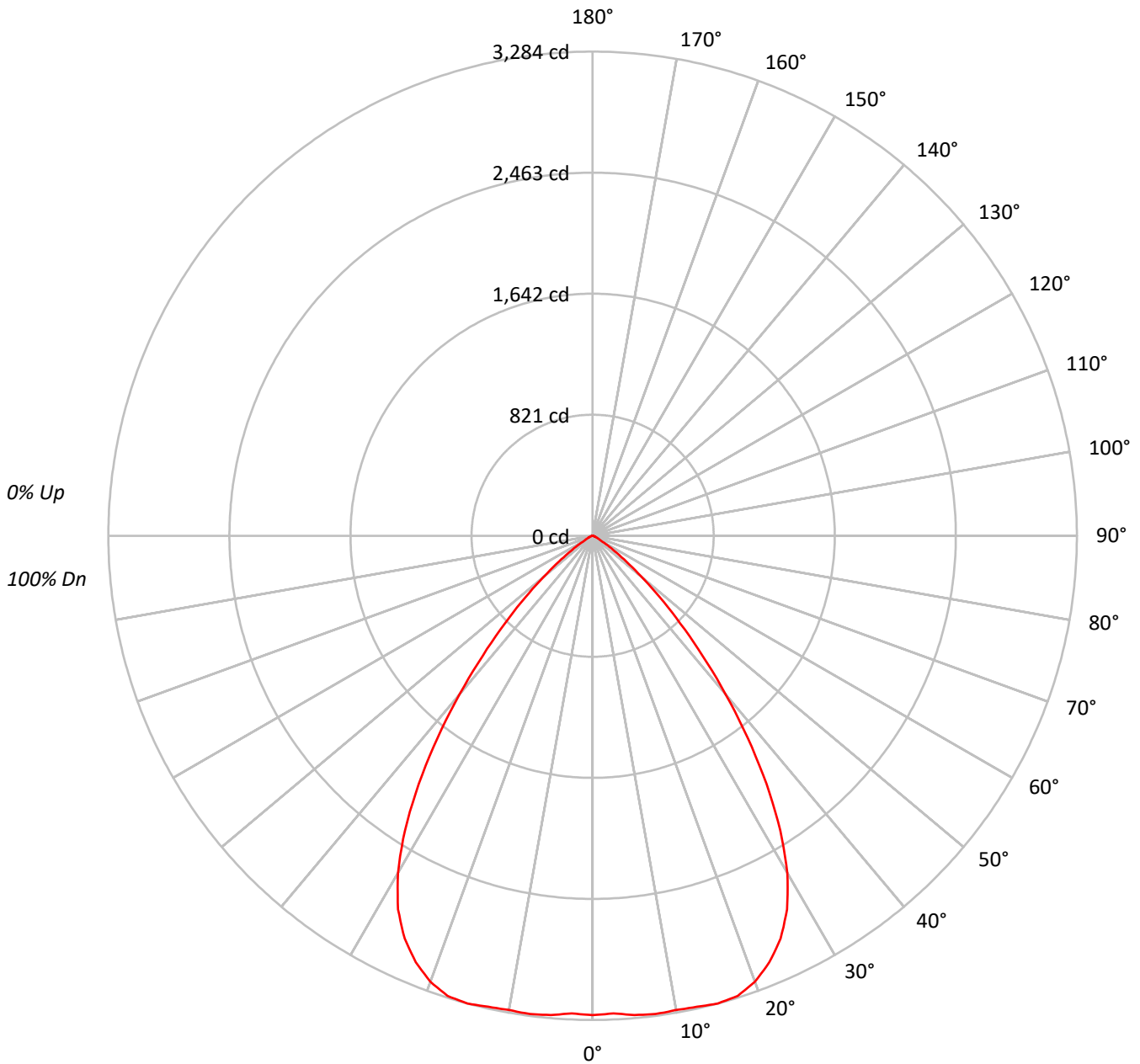
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P581393

CATALOG NUMBER: HC460D010-HM44560940-41WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P581393

CATALOG NUMBER: HC460D010-HM44560940-41WDH

**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	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

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

	0°
0°	401009
5°	404027
10°	409061
15°	419343
20°	422426
25°	410332
30°	376236
35°	309572
40°	225648
45°	146475
50°	82571
55°	39203
60°	15468
65°	9573
70°	6455
75°	4241
80°	2060
85°	4104



TEST NUMBER: P581393

CATALOG NUMBER: HC460D010-HM44560940-41WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.6	6.5
10°-20°	925.8	19.4
20°-30°	1373.2	28.8
30°-40°	1268.4	26.6
40°-50°	662.3	13.9
50°-60°	181.5	3.8
60°-70°	34.9	0.7
70°-80°	9.8	0.2
80°-90°	2.0	0.0
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°	2610.6	54.7
0°-40°	3879.0	81.3
0°-60°	4722.7	99.0
0°-90°	4769.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4769.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3251	
5°	3263	312
15°	3284	926
25°	3015	1373
35°	2056	1268
45°	840	662
55°	182	182
65°	33	35
75°	9	10
85°	3	2
90°	0	



TEST NUMBER: P581393

CATALOG NUMBER: HC460D010-HM44560940-41WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3251.1
2.5°	3242.1
5°	3263.1
7.5°	3272.0
10°	3266.0
12.5°	3272.0
15°	3283.9
17.5°	3272.0
20°	3218.2
22.5°	3131.6
25°	3015.0
27.5°	2856.7
30°	2641.6
32.5°	2369.6
35°	2055.9
37.5°	1727.2
40°	1401.4
42.5°	1102.6
45°	839.7
47.5°	615.5
50°	430.3
52.5°	286.9
55°	182.3
57.5°	107.6
60°	62.7
62.5°	44.8
65°	32.8
67.5°	23.9
70°	17.9
72.5°	12.0
75°	8.9
77.5°	6.0
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)