

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: P581266

Luminaire Tested: **HC460D010-HM44560827-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560827-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4263.6 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

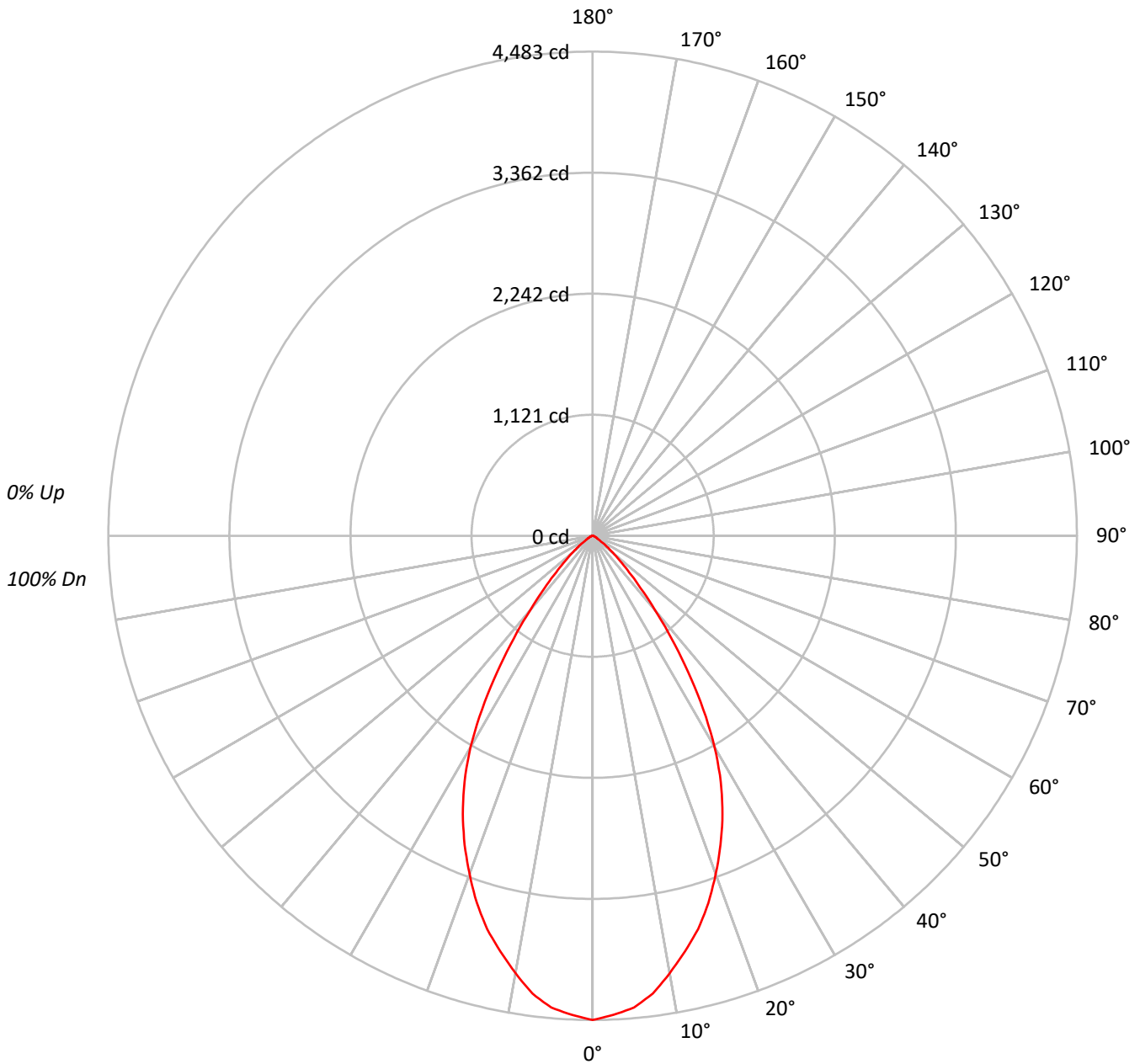
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581266

CATALOG NUMBER: HC460D010-HM44560827-41NDH

Luminous Intensity Polar Plot





TEST NUMBER: P581266

CATALOG NUMBER: HC460D010-HM44560827-41NDH

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			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86			
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54			
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	552995
5°	542949
10°	514997
15°	481532
20°	437338
25°	387005
30°	321900
35°	232115
40°	144866
45°	83573
50°	47148
55°	22472
60°	12877
65°	9836
70°	6636
75°	4384
80°	4333
85°	4246



TEST NUMBER: P581266

CATALOG NUMBER: HC460D010-HM44560827-41NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.9	9.6
10°-20°	1051.9	24.7
20°-30°	1293.8	30.3
30°-40°	960.8	22.5
40°-50°	390.7	9.2
50°-60°	108.2	2.5
60°-70°	33.7	0.8
70°-80°	11.3	0.3
80°-90°	3.3	0.1
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°	2755.6	64.6
0°-40°	3716.5	87.2
0°-60°	4215.3	98.9
0°-90°	4263.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4263.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4483	
5°	4385	410
15°	3771	1052
25°	2844	1294
35°	1542	961
45°	479	391
55°	104	108
65°	34	34
75°	9	11
85°	3	3
90°	0	



TEST NUMBER: P581266

CATALOG NUMBER: HC460D010-HM44560827-41NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	4483.3
2.5°	4440.4
5°	4385.1
7.5°	4274.6
10°	4111.8
12.5°	3942.9
15°	3770.9
17.5°	3565.2
20°	3331.8
22.5°	3095.3
25°	2843.6
27.5°	2570.3
30°	2260.1
32.5°	1907.0
35°	1541.5
37.5°	1197.6
40°	899.7
42.5°	657.2
45°	479.1
47.5°	343.9
50°	245.7
52.5°	168.9
55°	104.5
57.5°	67.6
60°	52.2
62.5°	43.0
65°	33.7
67.5°	24.6
70°	18.4
72.5°	15.3
75°	9.2
77.5°	6.1
80°	6.1
82.5°	3.0
85°	3.0
87.5°	3.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)