

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: P581272

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581272
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-HM44560827-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4435.6 lumens
Efficiency: N/A
Efficacy: 80.6 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

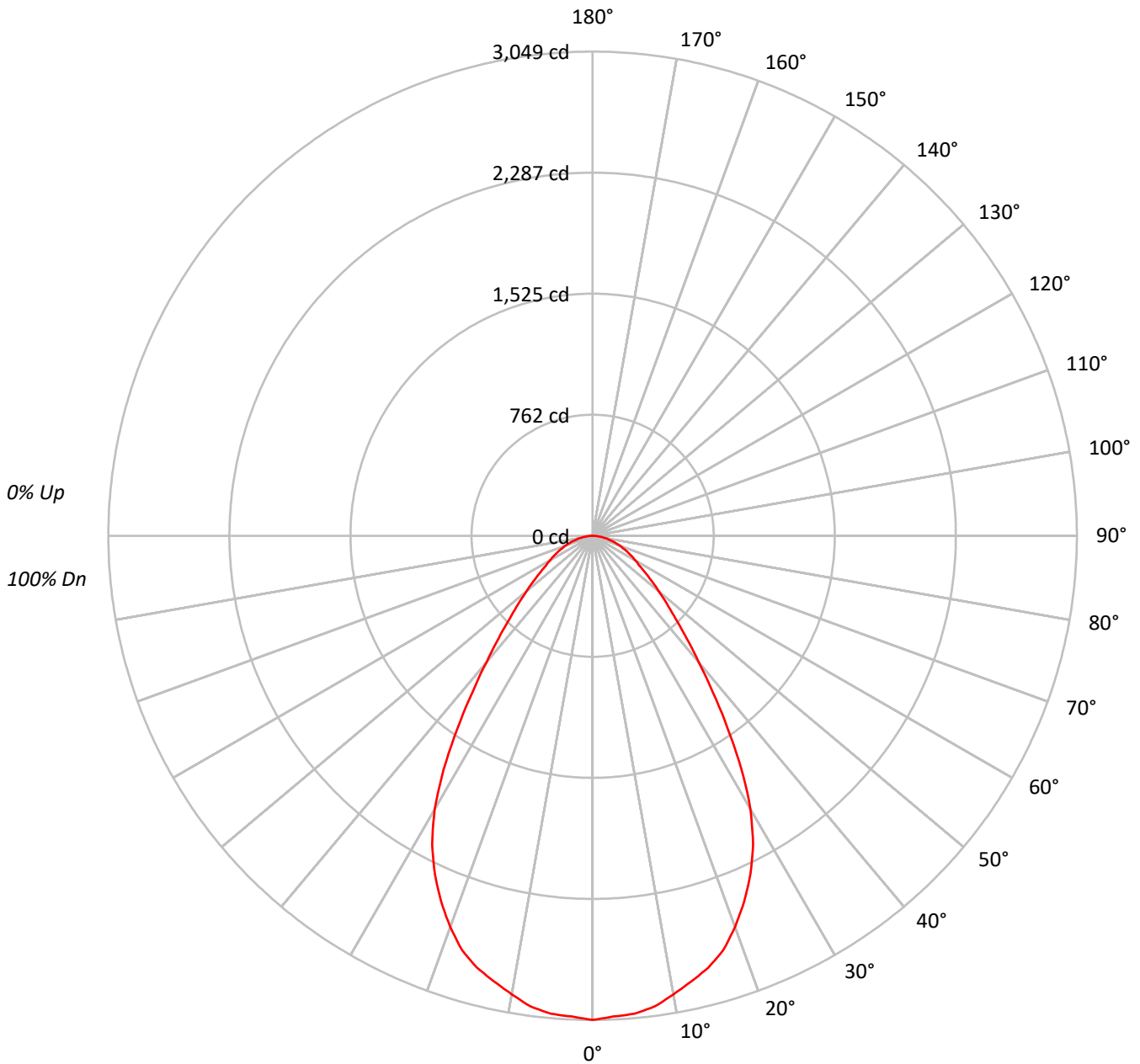
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581272

CATALOG NUMBER: HC460D010-HM44560827-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P581272

CATALOG NUMBER: HC460D010-HM44560827-41MDW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	376056
5°	374063
10°	367228
15°	359479
20°	344116
25°	319977
30°	283202
35°	223517
40°	167264
45°	128665
50°	104389
55°	86578
60°	76573
65°	70835
70°	65420
75°	60048
80°	54553
85°	43448



TEST NUMBER: P581272

CATALOG NUMBER: HC460D010-HM44560827-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	6.4
10°-20°	789.5	17.8
20°-30°	1072.0	24.2
30°-40°	928.6	20.9
40°-50°	583.0	13.1
50°-60°	366.8	8.3
60°-70°	240.9	5.4
70°-80°	132.9	3.0
80°-90°	36.3	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°	2147.1	48.4
0°-40°	3075.7	69.3
0°-60°	4025.4	90.8
0°-90°	4435.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4435.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3049	
5°	3021	286
15°	2815	789
25°	2351	1072
35°	1484	929
45°	738	583
55°	403	367
65°	243	241
75°	126	133
85°	31	36
90°	0	



TEST NUMBER: P581272

CATALOG NUMBER: HC460D010-HM44560827-41MDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3048.8
2.5°	3030.4
5°	3021.1
7.5°	2990.3
10°	2932.0
12.5°	2873.6
15°	2815.1
17.5°	2735.3
20°	2621.6
22.5°	2492.5
25°	2351.1
27.5°	2188.2
30°	1988.4
32.5°	1745.7
35°	1484.4
37.5°	1244.7
40°	1038.8
42.5°	875.9
45°	737.6
47.5°	633.1
50°	544.0
52.5°	467.1
55°	402.6
57.5°	347.3
60°	310.4
62.5°	276.6
65°	242.7
67.5°	209.0
70°	181.4
72.5°	150.6
75°	126.0
77.5°	98.4
80°	76.8
82.5°	52.2
85°	30.7
87.5°	12.3
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)