

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: P581273

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560827-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4226.7 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

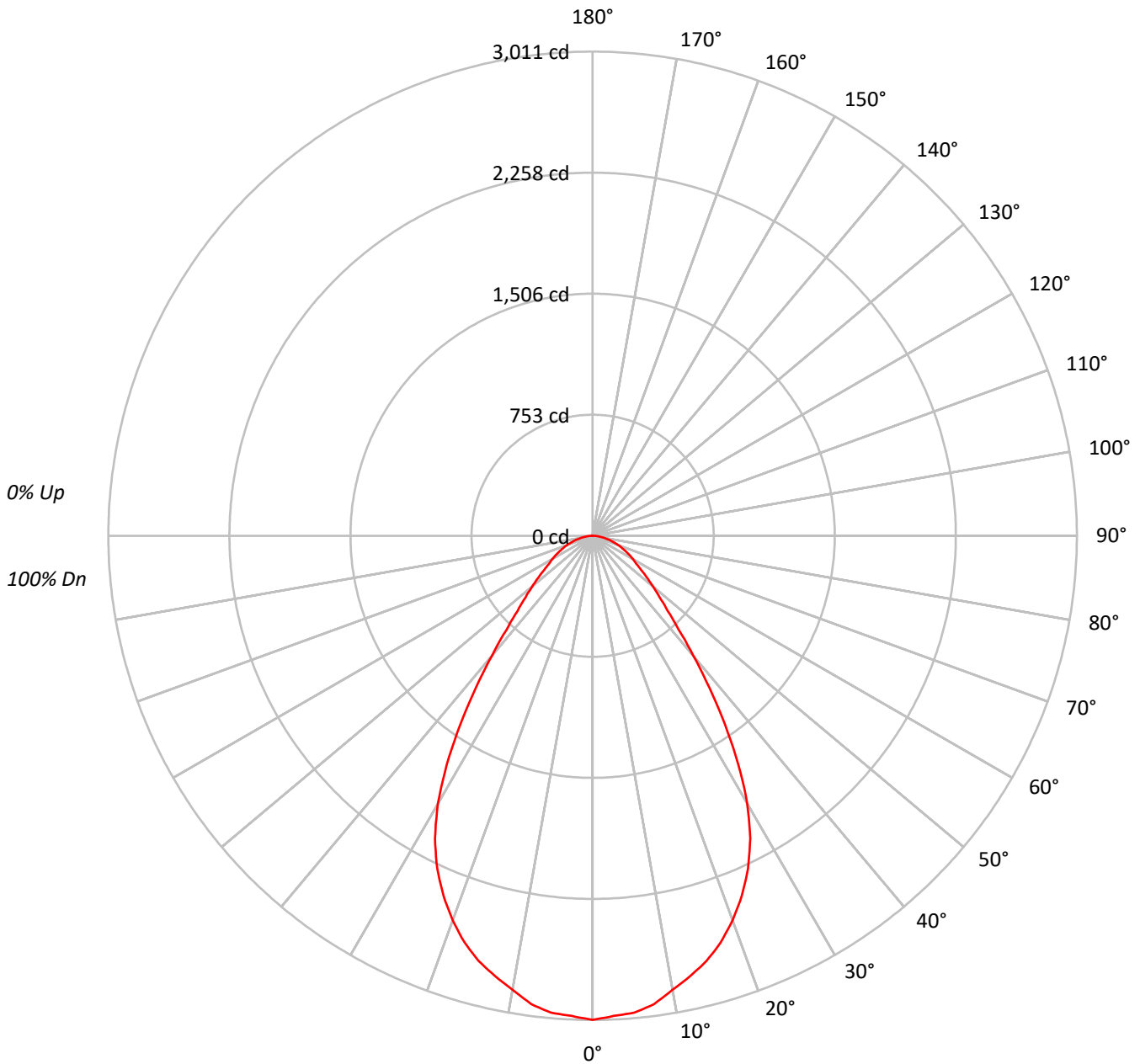
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581273

CATALOG NUMBER: HC460D010-HM44560827-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P581273

CATALOG NUMBER: HC460D010-HM44560827-41NDW

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	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	371344
5°	368578
10°	358987
15°	349532
20°	333877
25°	311063
30°	273902
35°	216018
40°	156798
45°	115198
50°	93720
55°	78621
60°	71244
65°	65435
70°	60948
75°	55616
80°	50149
85°	43448



TEST NUMBER: P581273

CATALOG NUMBER: HC460D010-HM44560827-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	6.6
10°-20°	767.7	18.2
20°-30°	1040.7	24.6
30°-40°	893.0	21.1
40°-50°	527.3	12.5
50°-60°	334.1	7.9
60°-70°	224.5	5.3
70°-80°	123.9	2.9
80°-90°	34.7	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°	2089.1	49.4
0°-40°	2982.2	70.6
0°-60°	3843.6	90.9
0°-90°	4226.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4226.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3011	
5°	2977	281
15°	2737	768
25°	2286	1041
35°	1435	893
45°	660	527
55°	366	334
65°	224	225
75°	117	124
85°	31	35
90°	0	



TEST NUMBER: P581273

CATALOG NUMBER: HC460D010-HM44560827-41NDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3010.6
2.5°	2989.1
5°	2976.8
7.5°	2936.9
10°	2866.2
12.5°	2804.8
15°	2737.2
17.5°	2651.1
20°	2543.6
22.5°	2423.8
25°	2285.6
27.5°	2122.8
30°	1923.1
32.5°	1686.6
35°	1434.6
37.5°	1192.0
40°	973.8
42.5°	792.5
45°	660.4
47.5°	565.2
50°	488.4
52.5°	423.9
55°	365.6
57.5°	319.4
60°	288.8
62.5°	258.1
65°	224.2
67.5°	196.6
70°	169.0
72.5°	141.3
75°	116.7
77.5°	92.2
80°	70.6
82.5°	49.2
85°	30.7
87.5°	12.3
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)