

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: P581372

Luminaire Tested: **HC460D010-HM44560935-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560935-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4858.1 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

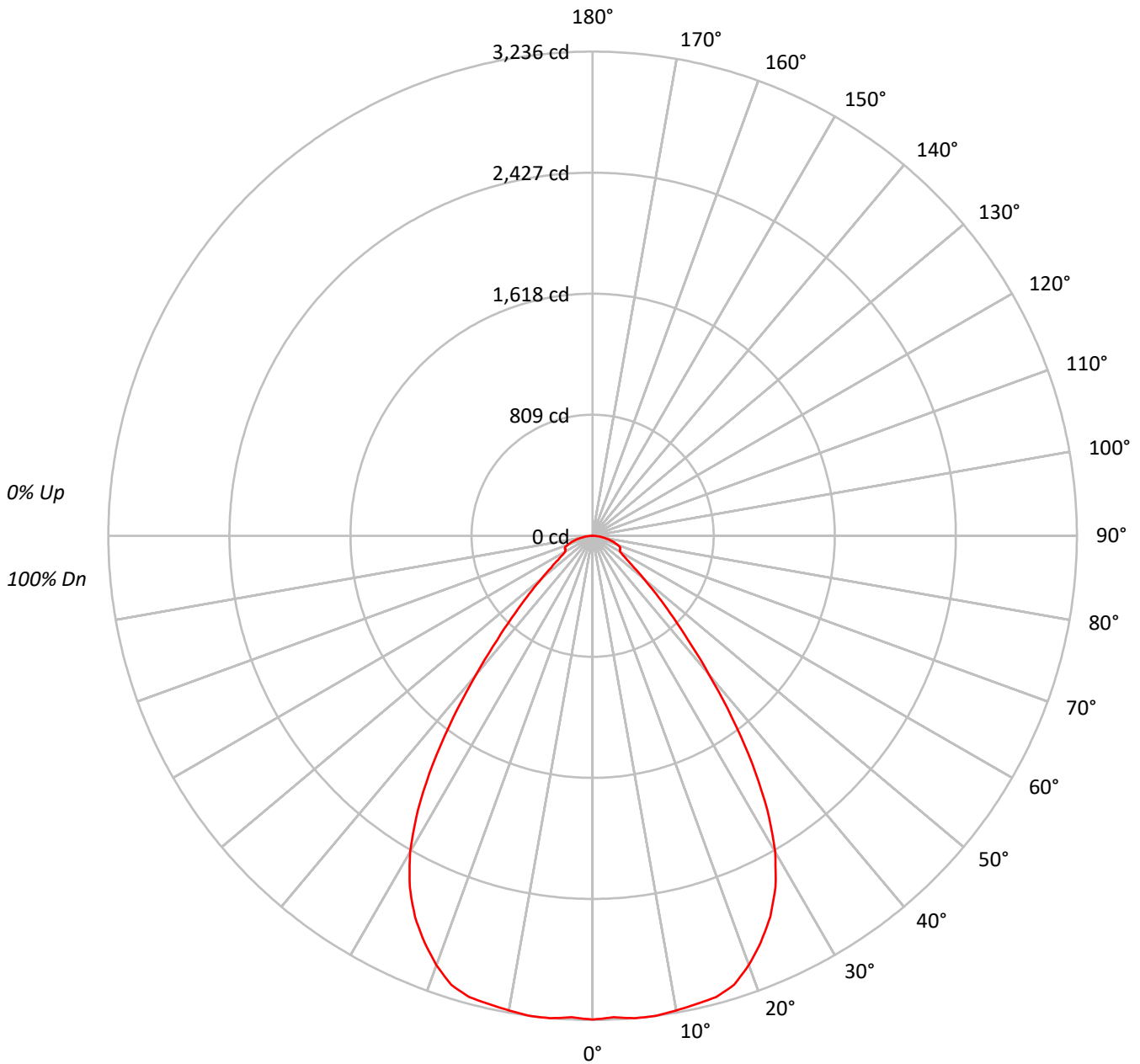
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581372

CATALOG NUMBER: HC460D010-HM44560935-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P581372

CATALOG NUMBER: HC460D010-HM44560935-41WDWB

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	398838
5°	400733
10°	403488
15°	407519
20°	400716
25°	382282
30°	347323
35°	280164
40°	194395
45°	127618
50°	85507
55°	60858
60°	51978
65°	59744
70°	64085
75°	61716
80°	55618
85°	51090



TEST NUMBER: P581372

CATALOG NUMBER: HC460D010-HM44560935-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.4	6.3
10°-20°	896.5	18.5
20°-30°	1280.9	26.4
30°-40°	1144.2	23.6
40°-50°	586.9	12.1
50°-60°	266.8	5.5
60°-70°	199.0	4.1
70°-80°	135.4	2.8
80°-90°	40.1	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°	2485.8	51.2
0°-40°	3630.0	74.7
0°-60°	4483.7	92.3
0°-90°	4858.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4858.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3234	
5°	3236	308
15°	3191	897
25°	2809	1281
35°	1861	1144
45°	732	587
55°	283	267
65°	205	199
75°	130	135
85°	36	40
90°	0	



TEST NUMBER: P581372

CATALOG NUMBER: HC460D010-HM44560935-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	3233.5
2.5°	3221.5
5°	3236.5
7.5°	3236.5
10°	3221.5
12.5°	3206.3
15°	3191.3
17.5°	3146.2
20°	3052.8
22.5°	2938.4
25°	2808.9
27.5°	2646.4
30°	2438.6
32.5°	2173.8
35°	1860.6
37.5°	1526.4
40°	1207.3
42.5°	942.3
45°	731.6
47.5°	572.0
50°	445.6
52.5°	349.2
55°	283.0
57.5°	237.9
60°	210.7
62.5°	204.7
65°	204.7
67.5°	198.8
70°	177.7
72.5°	153.5
75°	129.5
77.5°	102.3
80°	78.3
82.5°	57.2
85°	36.1
87.5°	15.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)