

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: P581209

Luminaire Tested: **HC455D010-HM44560930-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560930-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3605.0 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

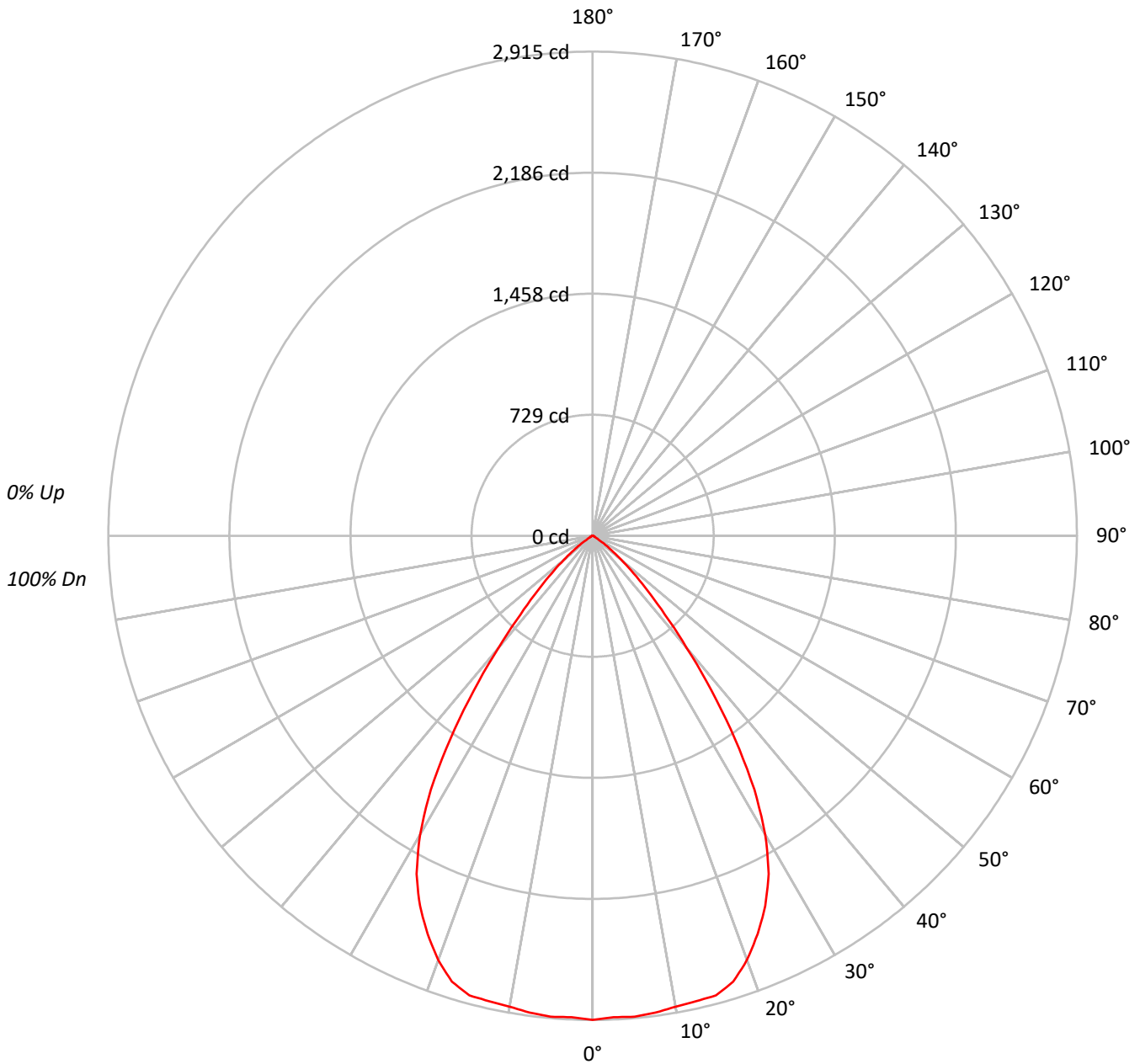
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93																
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85																
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			78																
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72																
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56																
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49			49																
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	359528
5°	359861
10°	360540
15°	365813
20°	356690
25°	334662
30°	296021
35°	225098
40°	141823
45°	81427
50°	43195
55°	17935
60°	4810
65°	4028
70°	2993
75°	2621
80°	1989
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	7.7
10°-20°	802.1	22.3
20°-30°	1119.5	31.1
30°-40°	921.2	25.6
40°-50°	379.5	10.5
50°-60°	85.5	2.4
60°-70°	13.7	0.4
70°-80°	5.1	0.1
80°-90°	1.9	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°	2198.0	61.0
0°-40°	3119.3	86.5
0°-60°	3584.2	99.4
0°-90°	3605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3605.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2915	
5°	2906	276
15°	2865	802
25°	2459	1119
35°	1495	921
45°	467	379
55°	83	86
65°	14	14
75°	6	5
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2914.8
2.5°	2900.8
5°	2906.4
7.5°	2895.3
10°	2878.6
12.5°	2870.3
15°	2864.7
17.5°	2814.8
20°	2717.4
22.5°	2595.2
25°	2459.0
27.5°	2295.1
30°	2078.4
32.5°	1811.6
35°	1494.9
37.5°	1175.4
40°	880.8
42.5°	641.8
45°	466.8
47.5°	333.4
50°	225.1
52.5°	141.8
55°	83.4
57.5°	41.6
60°	19.5
62.5°	16.7
65°	13.8
67.5°	11.1
70°	8.3
72.5°	5.5
75°	5.5
77.5°	2.8
80°	2.8
82.5°	2.8
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)