

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: P581289

Luminaire Tested: **HC460D010-HM44560830-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560830-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5788.5 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

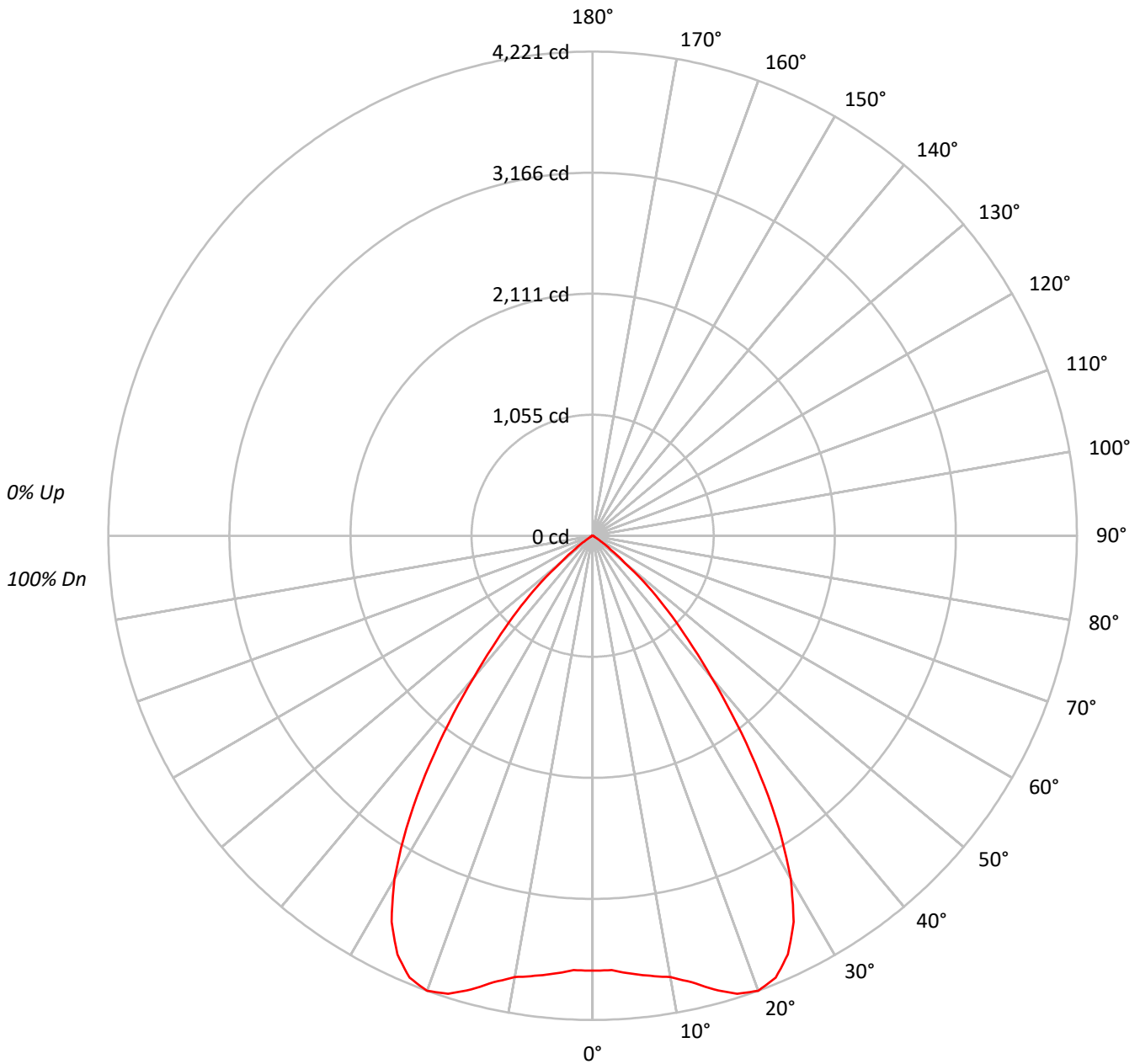
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60	60	60	60
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51	51	51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	467603
5°	474454
10°	489358
15°	522893
20°	554056
25°	547994
30°	491844
35°	382797
40°	259333
45°	161895
50°	70060
55°	23483
60°	5896
65°	3969
70°	2488
75°	1620
80°	2415
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.1	6.4
10°-20°	1162.4	20.1
20°-30°	1821.3	31.5
30°-40°	1571.9	27.2
40°-50°	722.8	12.5
50°-60°	122.7	2.1
60°-70°	13.9	0.2
70°-80°	5.0	0.1
80°-90°	0.5	0.0
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°	3351.7	57.9
0°-40°	4923.6	85.1
0°-60°	5769.2	99.7
0°-90°	5788.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5788.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3791	
5°	3832	368
15°	4095	1162
25°	4026	1821
35°	2542	1572
45°	928	723
55°	109	123
65°	14	14
75°	3	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3791.0
2.5°	3791.0
5°	3831.9
7.5°	3869.5
10°	3907.1
12.5°	3985.6
15°	4094.8
17.5°	4186.9
20°	4221.0
22.5°	4169.8
25°	4026.5
27.5°	3794.5
30°	3453.3
32.5°	3023.3
35°	2542.2
37.5°	2057.6
40°	1610.6
42.5°	1231.8
45°	928.1
47.5°	651.8
50°	365.1
52.5°	201.3
55°	109.2
57.5°	54.6
60°	23.9
62.5°	17.0
65°	13.6
67.5°	10.3
70°	6.9
72.5°	6.9
75°	3.4
77.5°	3.4
80°	3.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)