

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: P592952

Luminaire Tested: **HC460D010-HM44560850-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592952
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-HM44560850-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

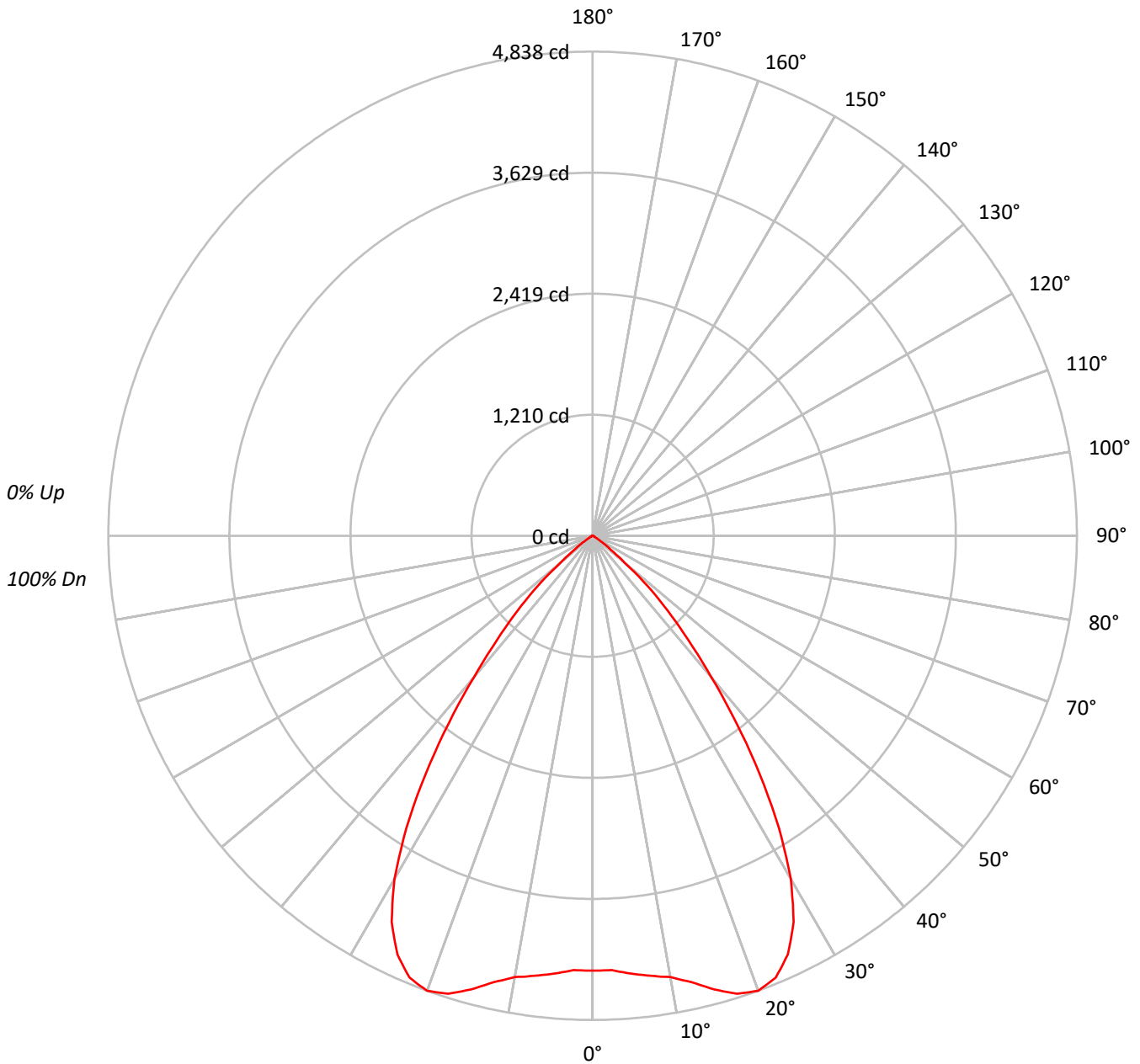
Lumens per Lamp: N/A
Luminaire Lumens: 6634.1 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	535924
5°	543791
10°	560837
15°	599268
20°	635005
25°	628060
30°	563684
35°	438707
40°	297220
45°	185549
50°	80307
55°	26902
60°	6759
65°	4582
70°	2813
75°	1859
80°	2770
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.9	6.4
10°-20°	1332.2	20.1
20°-30°	2087.3	31.5
30°-40°	1801.5	27.2
40°-50°	828.4	12.5
50°-60°	140.7	2.1
60°-70°	15.9	0.2
70°-80°	5.7	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°	3841.4	57.9
0°-40°	5642.9	85.1
0°-60°	6612.0	99.7
0°-90°	6634.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6634.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4345	
5°	4392	422
15°	4693	1332
25°	4615	2087
35°	2914	1801
45°	1064	828
55°	125	141
65°	16	16
75°	4	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4344.9
2.5°	4344.9
5°	4391.9
7.5°	4434.8
10°	4477.8
12.5°	4567.8
15°	4692.9
17.5°	4798.5
20°	4837.7
22.5°	4779.0
25°	4614.8
27.5°	4348.8
30°	3957.7
32.5°	3465.0
35°	2913.5
37.5°	2358.2
40°	1845.9
42.5°	1411.8
45°	1063.7
47.5°	747.0
50°	418.5
52.5°	230.8
55°	125.1
57.5°	62.6
60°	27.4
62.5°	19.5
65°	15.7
67.5°	11.7
70°	7.8
72.5°	7.8
75°	3.9
77.5°	3.9
80°	3.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)