

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: P592918

Luminaire Tested: **HC455D010-HM44560850-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592918
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: HC455D010-HM44560850-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5170.4 lumens
Efficiency: N/A
Efficacy: 99.4 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

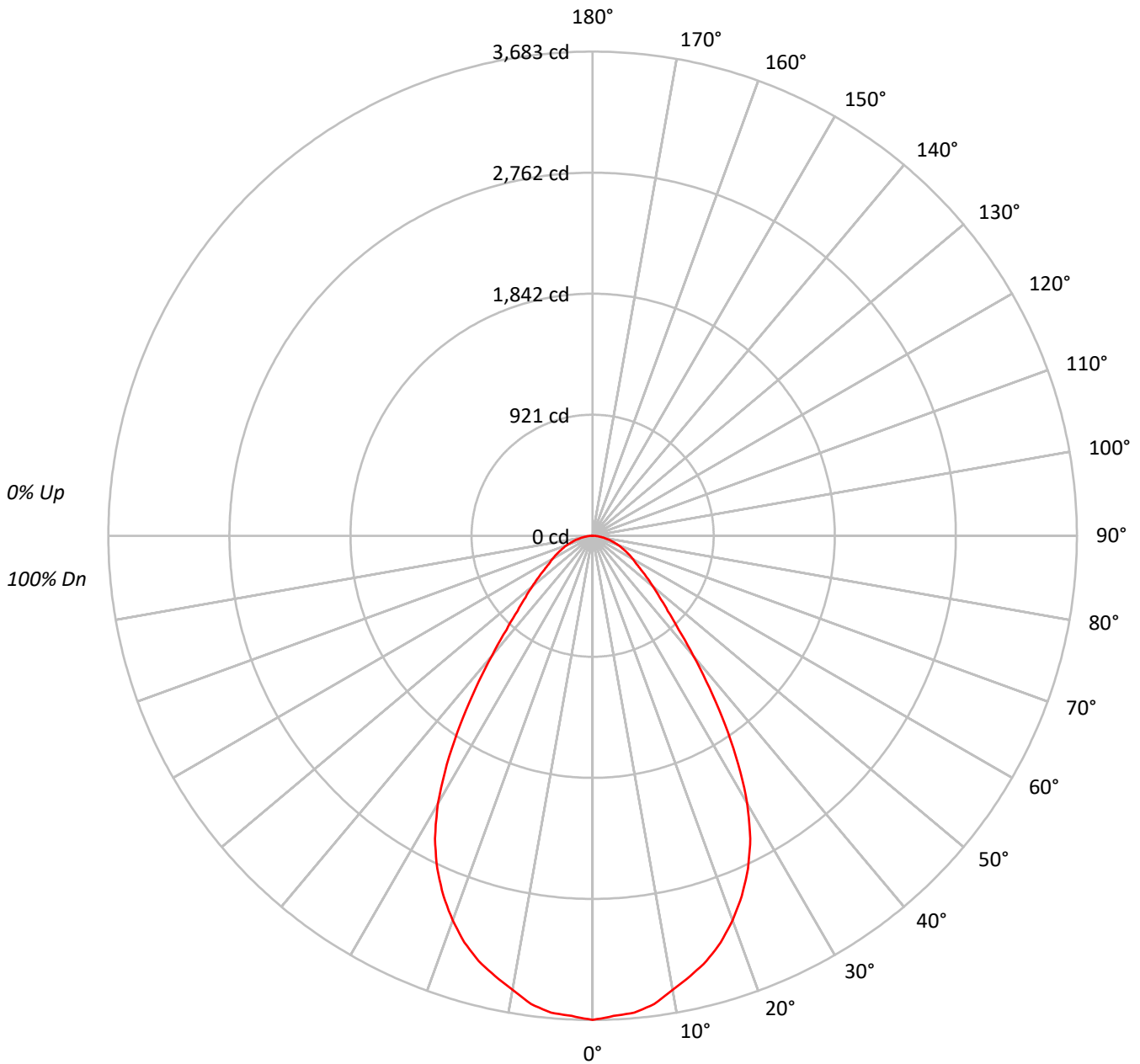
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	454245
5°	450854
10°	439134
15°	427554
20°	408421
25°	380500
30°	335046
35°	264248
40°	191819
45°	140945
50°	114655
55°	96169
60°	87131
65°	80057
70°	74544
75°	68054
80°	61372
85°	53213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.3	6.6
10°-20°	939.1	18.2
20°-30°	1273.1	24.6
30°-40°	1092.4	21.1
40°-50°	645.0	12.5
50°-60°	408.8	7.9
60°-70°	274.6	5.3
70°-80°	151.6	2.9
80°-90°	42.4	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°	2555.5	49.4
0°-40°	3647.9	70.6
0°-60°	4701.7	90.9
0°-90°	5170.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5170.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3683	
5°	3641	343
15°	3348	939
25°	2796	1273
35°	1755	1092
45°	808	645
55°	447	409
65°	274	275
75°	143	152
85°	38	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3682.7
2.5°	3656.4
5°	3641.3
7.5°	3592.5
10°	3506.1
12.5°	3430.9
15°	3348.2
17.5°	3243.0
20°	3111.5
22.5°	2964.9
25°	2795.8
27.5°	2596.6
30°	2352.4
32.5°	2063.0
35°	1754.9
37.5°	1458.0
40°	1191.3
42.5°	969.5
45°	808.0
47.5°	691.4
50°	597.5
52.5°	518.6
55°	447.2
57.5°	390.8
60°	353.2
62.5°	315.7
65°	274.3
67.5°	240.5
70°	206.7
72.5°	172.9
75°	142.8
77.5°	112.7
80°	86.4
82.5°	60.1
85°	37.6
87.5°	15.1
90°	0.0



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— 0°-180°







(END OF REPORT)