

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: P585005

Luminaire Tested: **HC855D010-HM82555930-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555930-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4668.1 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

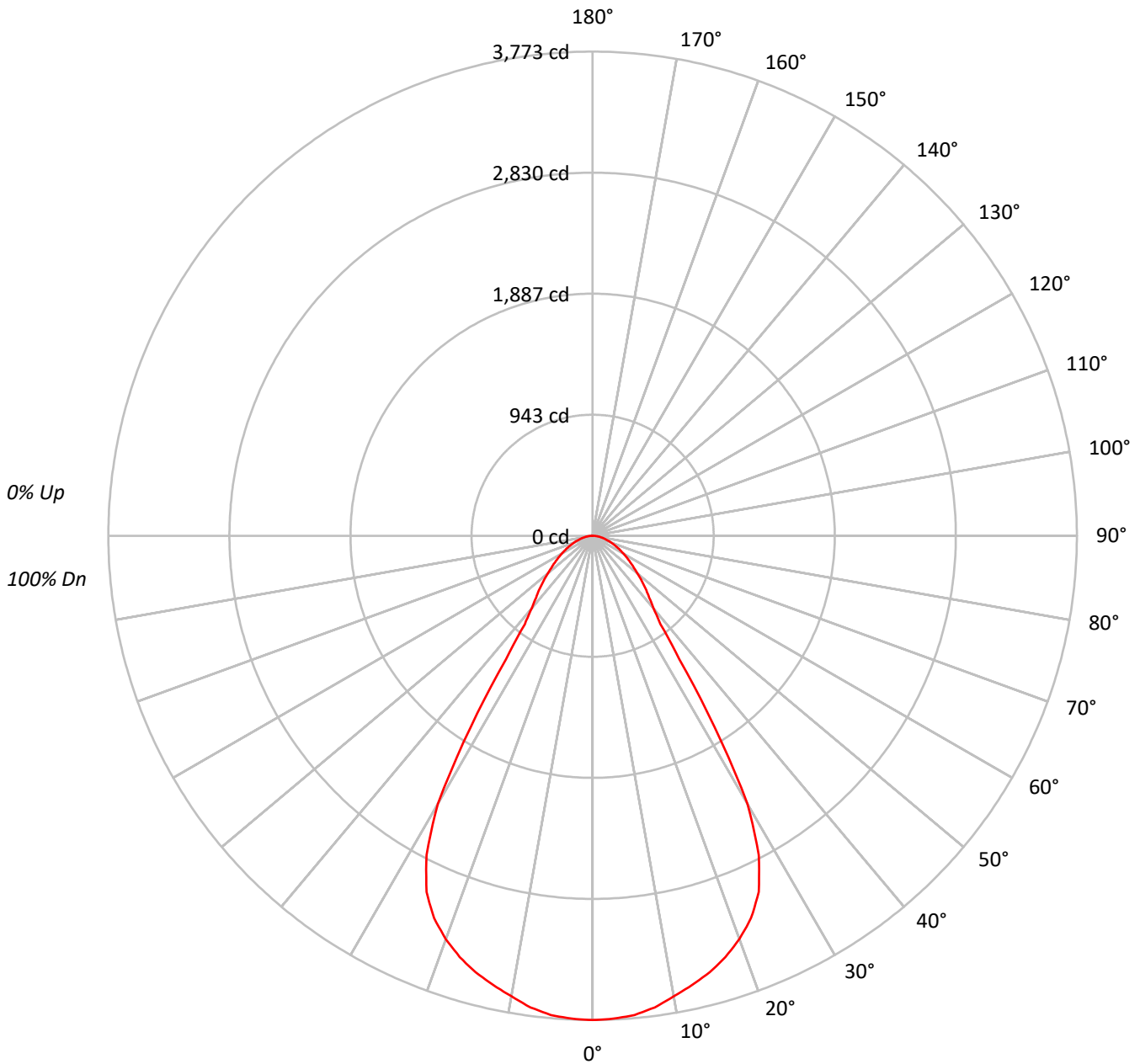
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90							90												
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81							81												
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73							73												
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67							67												
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61							61												
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56							56												
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52							52												
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48							48												
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45							45												
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42							42												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116358
5°	116044
10°	114110
15°	112443
20°	109748
25°	104182
30°	85930
35°	44243
40°	29619
45°	25398
50°	21914
55°	19123
60°	16991
65°	15264
70°	13830
75°	12474
80°	11152
85°	11110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.5	7.6
10°-20°	991.0	21.2
20°-30°	1373.1	29.4
30°-40°	824.7	17.7
40°-50°	451.5	9.7
50°-60°	320.7	6.9
60°-70°	208.2	4.5
70°-80°	111.3	2.4
80°-90°	33.2	0.7
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°	2718.5	58.2
0°-40°	3543.2	75.9
0°-60°	4315.4	92.4
0°-90°	4668.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4668.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3773	
5°	3749	354
15°	3522	991
25°	3062	1373
35°	1175	825
45°	582	451
55°	356	321
65°	209	208
75°	105	111
85°	31	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3773.4
2.5°	3766.3
5°	3748.9
7.5°	3707.0
10°	3644.3
12.5°	3585.0
15°	3522.2
17.5°	3442.0
20°	3344.4
22.5°	3225.8
25°	3062.0
27.5°	2803.9
30°	2413.3
32.5°	1768.1
35°	1175.3
37.5°	868.3
40°	735.8
42.5°	652.1
45°	582.4
47.5°	516.1
50°	456.8
52.5°	401.1
55°	355.7
57.5°	313.9
60°	275.5
62.5°	240.6
65°	209.2
67.5°	177.9
70°	153.4
72.5°	125.5
75°	104.7
77.5°	83.7
80°	62.8
82.5°	45.4
85°	31.4
87.5°	13.9
90°	0.0



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— 0°-180°







(END OF REPORT)