

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: P584958

Luminaire Tested: **HC855D010-HM82555835-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555835-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5630.3 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

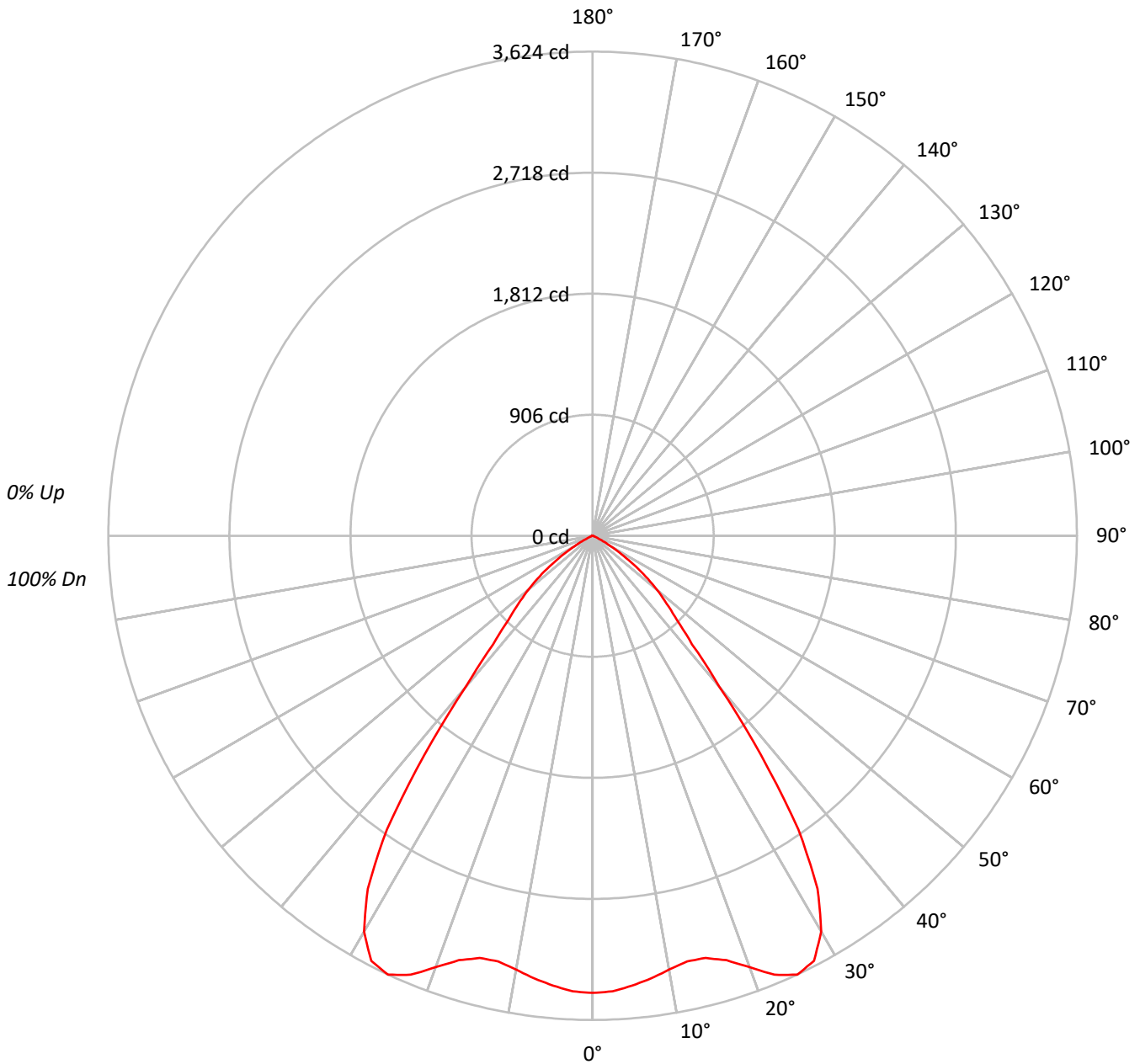
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105491
5°	104616
10°	103236
15°	104411
20°	112757
25°	123307
30°	121811
35°	101041
40°	59471
45°	38856
50°	30117
55°	20010
60°	9738
65°	3021
70°	1019
75°	894
80°	675
85°	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.1	5.7
10°-20°	939.6	16.7
20°-30°	1642.9	29.2
30°-40°	1598.1	28.4
40°-50°	726.7	12.9
50°-60°	337.0	6.0
60°-70°	56.5	1.0
70°-80°	6.9	0.1
80°-90°	2.6	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°	2902.5	51.6
0°-40°	4500.6	79.9
0°-60°	5564.3	98.8
0°-90°	5630.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5630.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3421	
5°	3380	320
15°	3271	940
25°	3624	1643
35°	2684	1598
45°	891	727
55°	372	337
65°	41	56
75°	8	7
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3421.0
2.5°	3413.4
5°	3379.7
7.5°	3342.1
10°	3297.0
12.5°	3263.1
15°	3270.6
17.5°	3330.8
20°	3436.1
22.5°	3556.3
25°	3624.1
27.5°	3586.4
30°	3421.0
32.5°	3131.6
35°	2684.1
37.5°	2067.6
40°	1477.4
42.5°	1101.4
45°	891.0
47.5°	751.8
50°	627.8
52.5°	500.0
55°	372.2
57.5°	255.6
60°	157.9
62.5°	86.5
65°	41.4
67.5°	18.8
70°	11.3
72.5°	7.5
75°	7.5
77.5°	3.8
80°	3.8
82.5°	3.8
85°	3.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)