

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: P584944

Luminaire Tested: **HC855D010-HM82555830-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5446.2 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

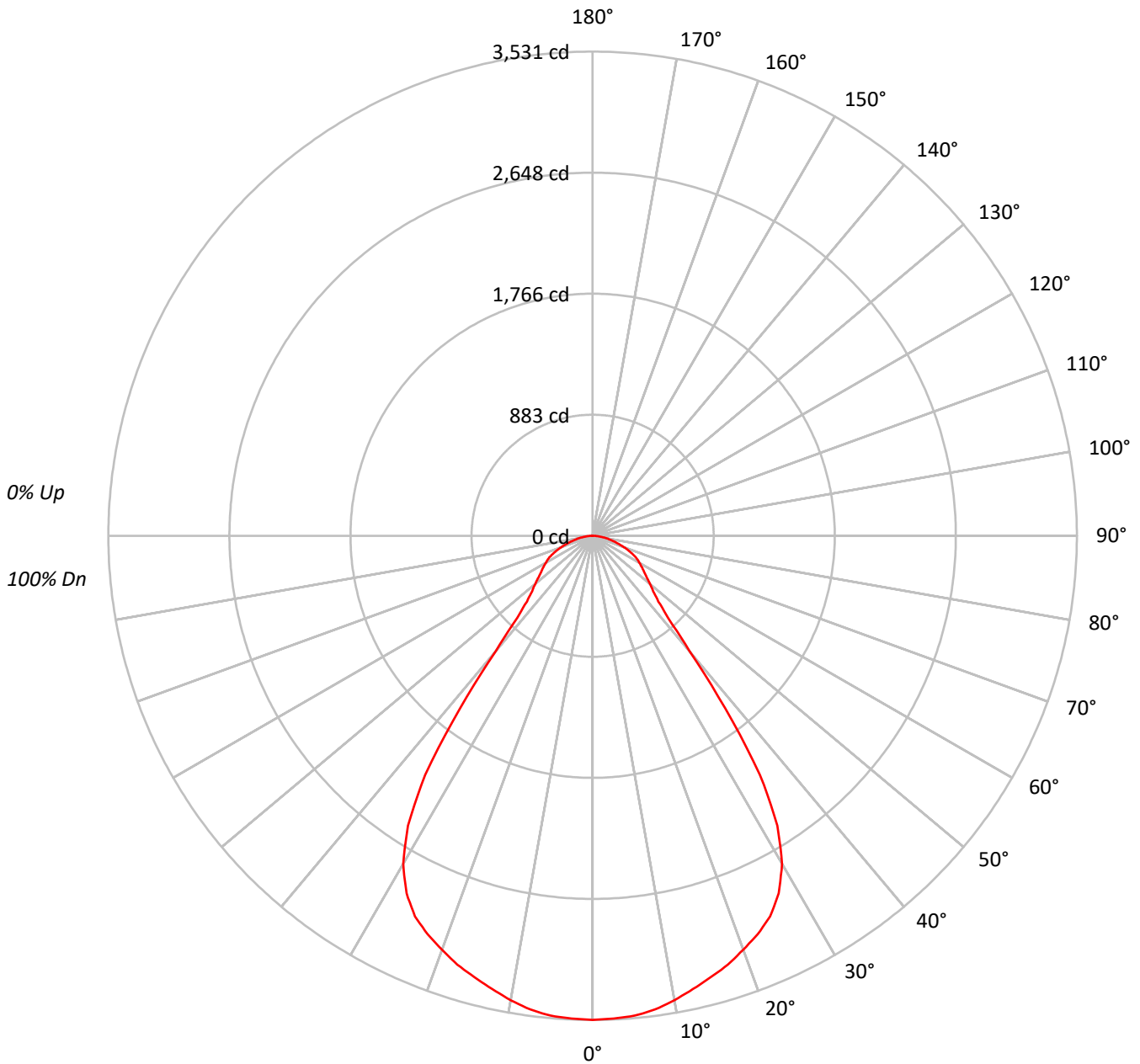
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	108883
5°	108751
10°	107676
15°	106387
20°	105400
25°	104216
30°	98335
35°	80073
40°	44239
45°	29532
50°	26188
55°	24585
60°	24274
65°	24057
70°	21737
75°	19420
80°	17012
85°	15037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.0	6.1
10°-20°	941.0	17.3
20°-30°	1398.1	25.7
30°-40°	1259.1	23.1
40°-50°	558.2	10.2
50°-60°	413.4	7.6
60°-70°	321.5	5.9
70°-80°	174.3	3.2
80°-90°	47.7	0.9
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°	2672.1	49.1
0°-40°	3931.2	72.2
0°-60°	4902.7	90.0
0°-90°	5446.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5446.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3531	
5°	3513	333
15°	3332	941
25°	3063	1398
35°	2127	1259
45°	677	558
55°	457	413
65°	330	321
75°	163	174
85°	42	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3531.0
2.5°	3523.9
5°	3513.3
7.5°	3484.9
10°	3438.8
12.5°	3385.7
15°	3332.5
17.5°	3279.3
20°	3211.9
22.5°	3144.6
25°	3063.0
27.5°	2938.9
30°	2761.7
32.5°	2506.4
35°	2127.1
37.5°	1588.2
40°	1099.0
42.5°	811.8
45°	677.2
47.5°	599.1
50°	545.9
52.5°	496.3
55°	457.3
57.5°	425.4
60°	393.6
62.5°	365.2
65°	329.7
67.5°	287.1
70°	241.1
72.5°	202.1
75°	163.0
77.5°	127.6
80°	95.8
82.5°	67.4
85°	42.5
87.5°	17.7
90°	0.0



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— 0°-180°







(END OF REPORT)