

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: P593833

Luminaire Tested: **HC855D010-HM82555850-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593833
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-HM82555850-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6252.7 lumens
Efficiency: N/A
Efficacy: 120.2 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

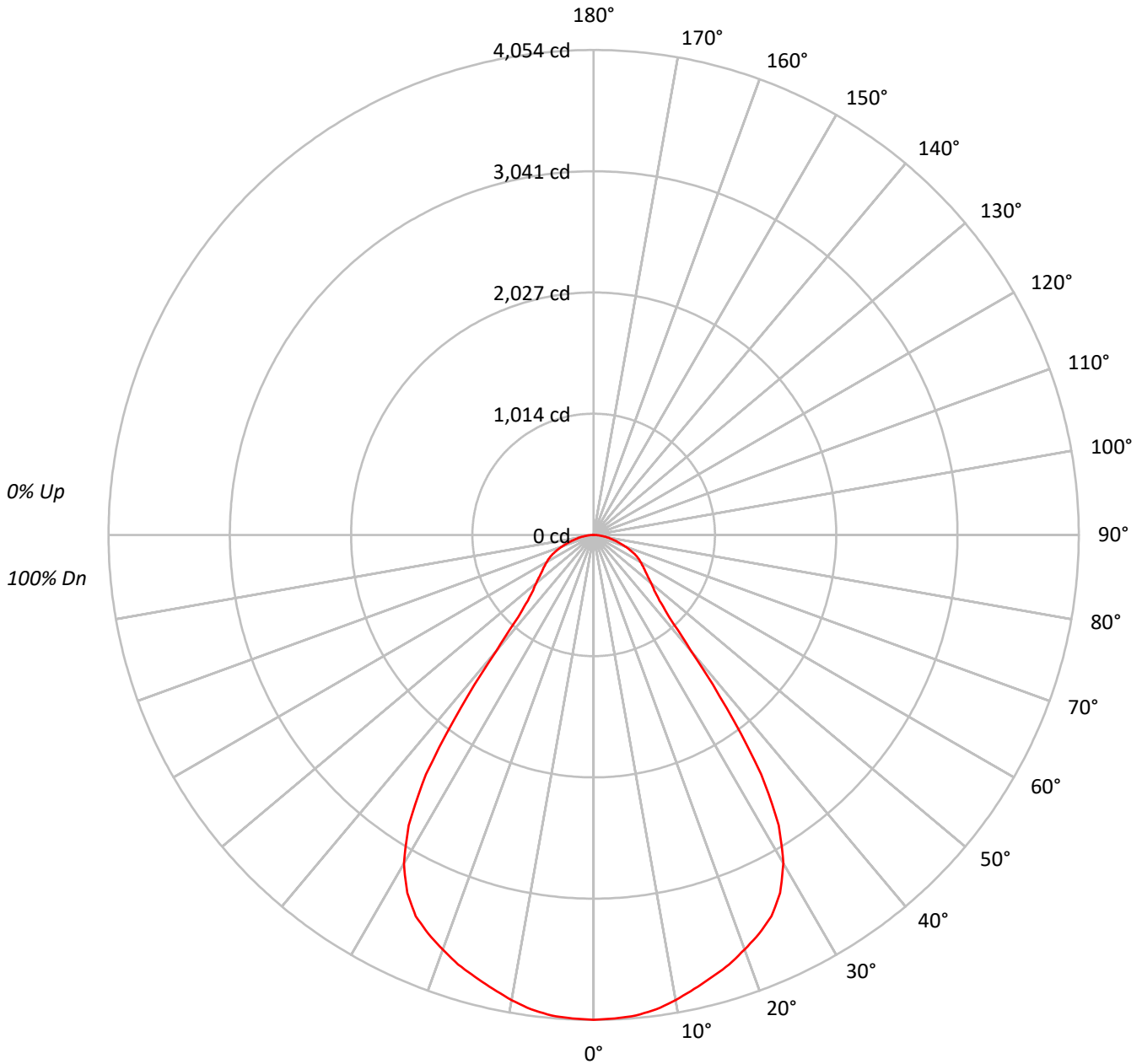
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	125001
5°	124850
10°	123620
15°	122138
20°	121006
25°	119646
30°	112895
35°	91927
40°	50788
45°	33902
50°	30069
55°	28230
60°	27864
65°	27625
70°	24947
75°	22303
80°	19516
85°	17301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.3	6.1
10°-20°	1080.3	17.3
20°-30°	1605.2	25.7
30°-40°	1445.5	23.1
40°-50°	640.8	10.2
50°-60°	474.6	7.6
60°-70°	369.1	5.9
70°-80°	200.1	3.2
80°-90°	54.9	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°	3067.7	49.1
0°-40°	4513.2	72.2
0°-60°	5628.7	90.0
0°-90°	6252.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6252.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4054	
5°	4033	382
15°	3826	1080
25°	3516	1605
35°	2442	1446
45°	777	641
55°	525	475
65°	379	369
75°	187	200
85°	49	55
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4053.7
2.5°	4045.6
5°	4033.4
7.5°	4000.9
10°	3948.0
12.5°	3886.9
15°	3825.9
17.5°	3764.8
20°	3687.5
22.5°	3610.1
25°	3516.5
27.5°	3374.1
30°	3170.6
32.5°	2877.5
35°	2442.0
37.5°	1823.4
40°	1261.7
42.5°	932.1
45°	777.4
47.5°	687.8
50°	626.8
52.5°	569.8
55°	525.1
57.5°	488.4
60°	451.8
62.5°	419.2
65°	378.6
67.5°	329.7
70°	276.7
72.5°	231.9
75°	187.2
77.5°	146.5
80°	109.9
82.5°	77.4
85°	48.9
87.5°	20.4
90°	0.0



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— 0°-180°







(END OF REPORT)