

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: P585019

Luminaire Tested: **HC855D010-HM82555935-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5191.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

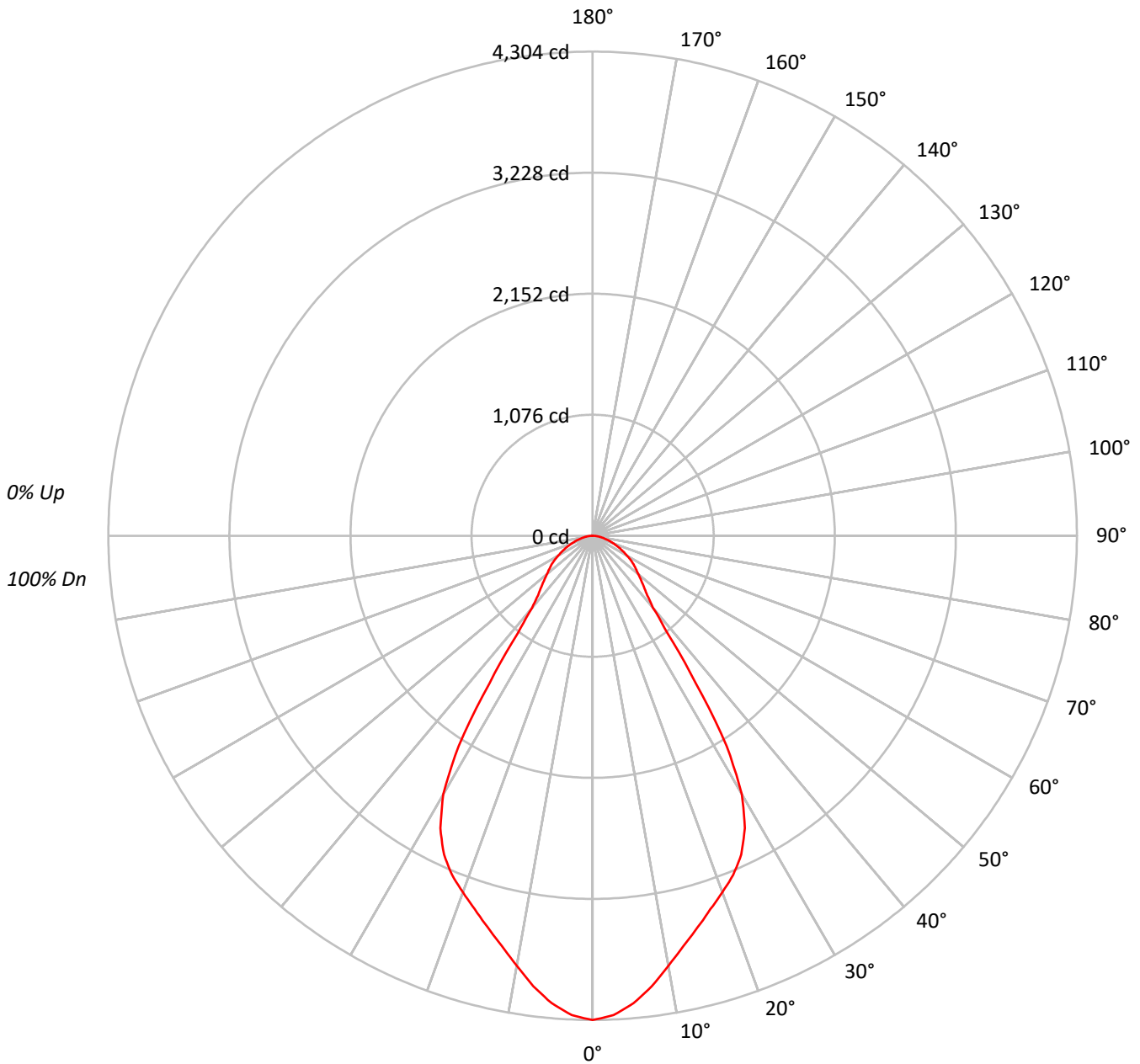
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
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	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132732
5°	129119
10°	121500
15°	115035
20°	110657
25°	106383
30°	94482
35°	60170
40°	33580
45°	28128
50°	25392
55°	23929
60°	21838
65°	19693
70°	17383
75°	15453
80°	13691
85°	12383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.9	7.5
10°-20°	1016.2	19.6
20°-30°	1417.7	27.3
30°-40°	1020.1	19.7
40°-50°	505.6	9.7
50°-60°	395.6	7.6
60°-70°	267.8	5.2
70°-80°	139.1	2.7
80°-90°	40.1	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°	2822.8	54.4
0°-40°	3843.0	74.0
0°-60°	4744.1	91.4
0°-90°	5191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5191.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4304	
5°	4171	389
15°	3603	1016
25°	3127	1418
35°	1598	1020
45°	645	506
55°	445	396
65°	270	268
75°	130	139
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4304.4
2.5°	4265.8
5°	4171.3
7.5°	4038.0
10°	3880.3
12.5°	3733.1
15°	3603.4
17.5°	3480.7
20°	3372.1
22.5°	3263.4
25°	3126.7
27.5°	2930.4
30°	2653.5
32.5°	2218.8
35°	1598.4
37.5°	1090.1
40°	834.2
42.5°	718.6
45°	645.0
47.5°	581.9
50°	529.3
52.5°	483.7
55°	445.1
57.5°	399.7
60°	354.1
62.5°	308.5
65°	269.9
67.5°	231.4
70°	192.8
72.5°	161.3
75°	129.7
77.5°	101.6
80°	77.1
82.5°	56.1
85°	35.0
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)