

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: P584952

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555835-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5581.5 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

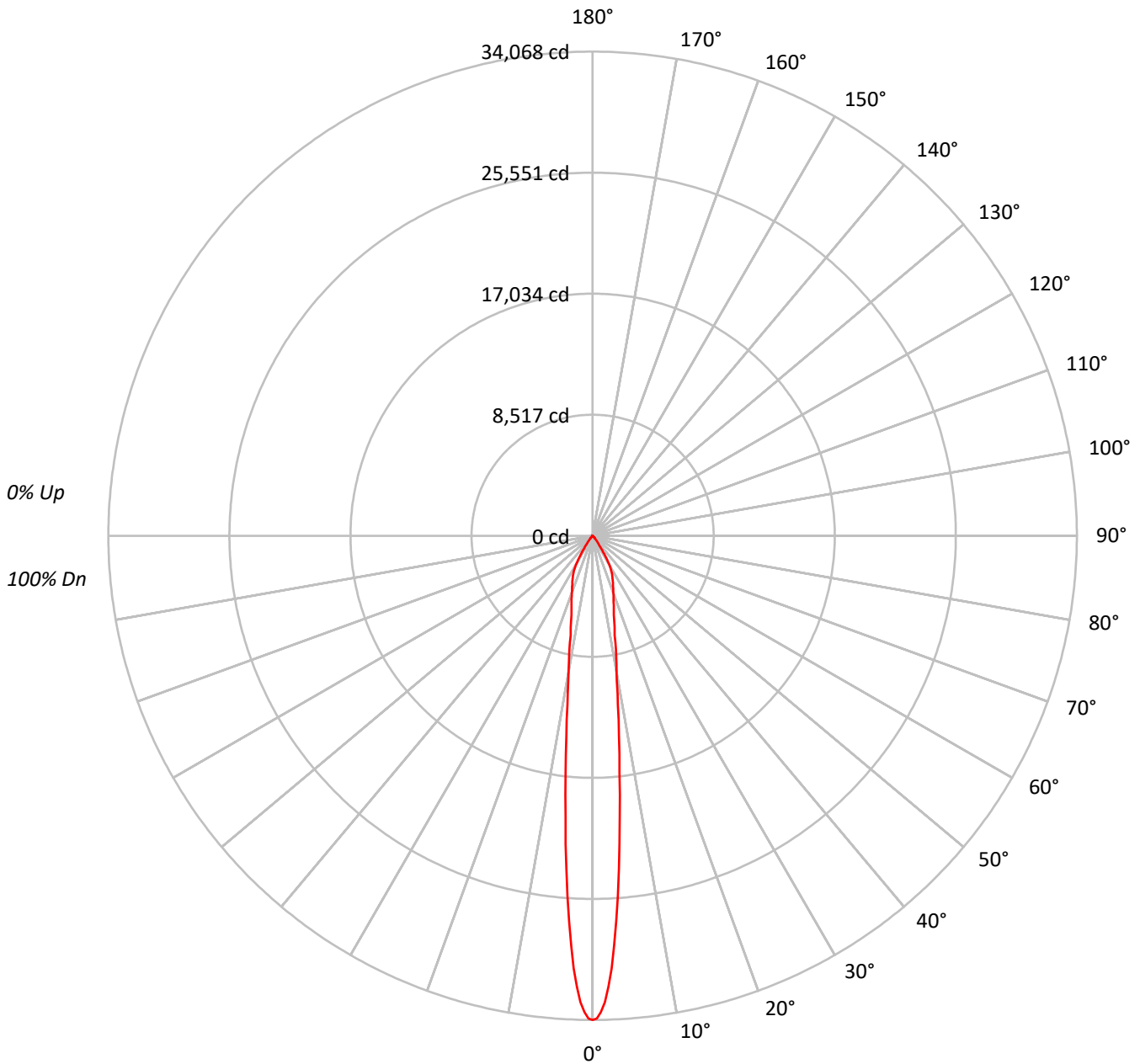
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1050538
5°	673834
10°	304397
15°	183666
20°	139961
25°	113025
30°	82825
35°	29987
40°	11195
45°	5080
50°	1626
55°	403
60°	234
65°	277
70°	0
75°	0
80°	675
85°	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1660.3	29.7
10°-20°	1686.3	30.2
20°-30°	1509.6	27.0
30°-40°	608.1	10.9
40°-50°	99.7	1.8
50°-60°	9.1	0.2
60°-70°	3.3	0.1
70°-80°	2.5	0.0
80°-90°	3.6	0.1
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°	4856.2	87.0
0°-40°	5464.3	97.9
0°-60°	5573.1	99.8
0°-90°	5582.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5581.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	34068	
5°	21769	###
15°	5753	1686
25°	3322	1510
35°	797	608
45°	116	100
55°	8	9
65°	4	3
75°	0	3
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	34068.2
0.5°	33962.9
1°	33523.3
1.5°	32816.8
2°	31745.8
2.5°	30479.5
3°	28893.7
3.5°	27153.8
4°	25432.8
4.5°	23504.9
5°	21768.8
5.5°	19878.8
6°	18345.6
6.5°	16748.5
7°	15493.4
7.5°	14166.9
8°	13099.7
8.5°	12028.7
9°	11224.5
9.5°	10337.6
10°	9721.4
12.5°	7169.8
15°	5753.2
17.5°	4915.1
20°	4265.1
22.5°	3746.5
25°	3321.9
27.5°	2897.3
30°	2326.1
32.5°	1495.6
35°	796.6
37.5°	439.6
40°	278.1
42.5°	184.1
45°	116.5
47.5°	71.4
50°	33.9
52.5°	11.3
55°	7.5
57.5°	3.8
60°	3.8
62.5°	3.8
65°	3.8



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.8
80°	3.8
82.5°	3.8
85°	3.8
87.5°	3.8
90°	0.0



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— 0°-180°







67.5°		3.8
70°		0.0



(END OF REPORT)