

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: P593689

Luminaire Tested: **HC835D010-HM82555850-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555850-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4053.1 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

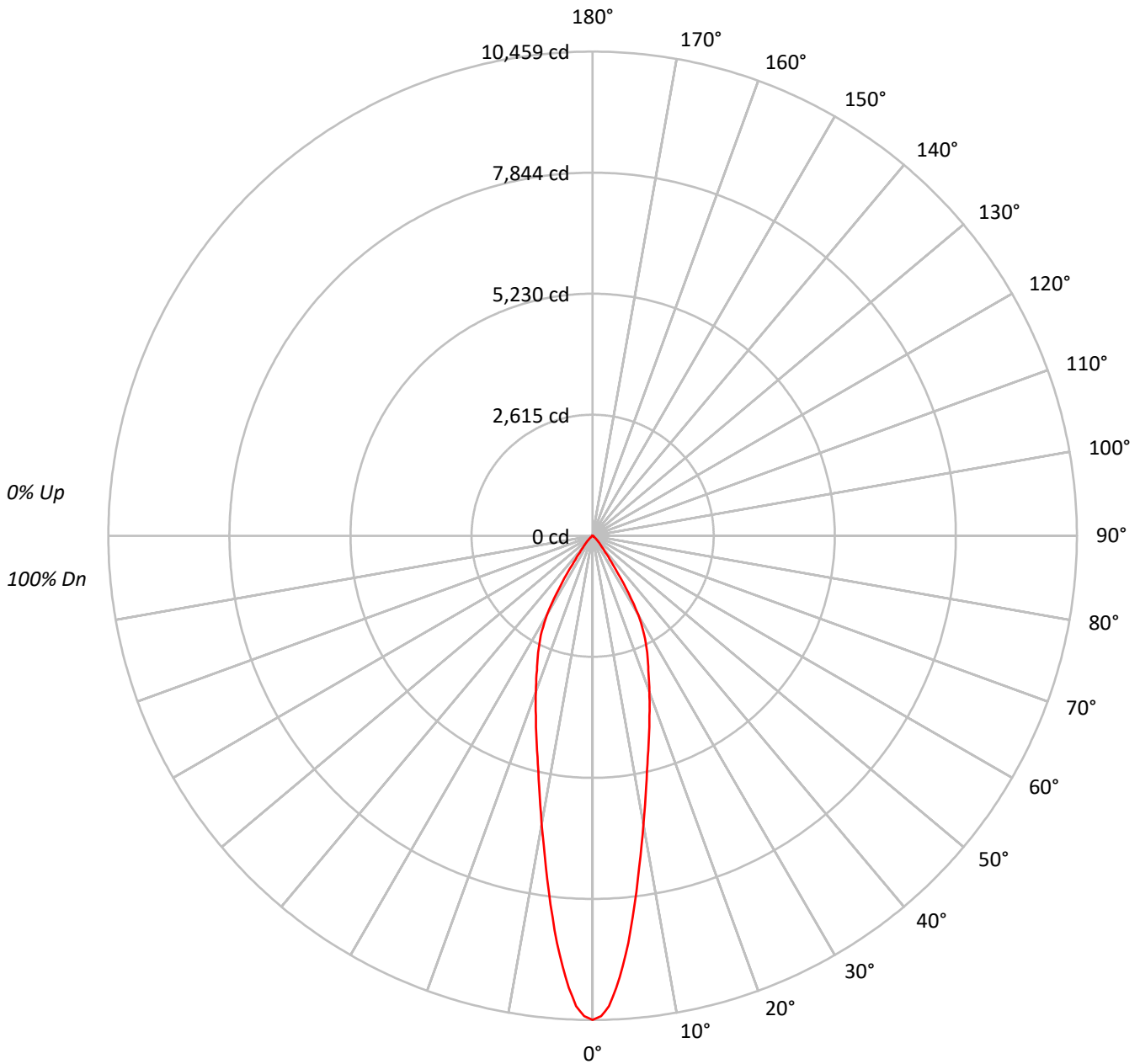
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	322508
5°	273232
10°	198243
15°	148872
20°	117462
25°	94750
30°	70213
35°	28448
40°	12000
45°	6432
50°	2893
55°	1457
60°	931
65°	657
70°	541
75°	357
80°	533
85°	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.9	18.7
10°-20°	1309.8	32.3
20°-30°	1266.3	31.2
30°-40°	556.2	13.7
40°-50°	120.2	3.0
50°-60°	27.0	0.7
60°-70°	9.3	0.2
70°-80°	3.6	0.1
80°-90°	2.9	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°	3334.0	82.3
0°-40°	3890.2	96.0
0°-60°	4037.4	99.6
0°-90°	4053.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4053.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10459	
5°	8827	758
15°	4663	1310
25°	2785	1266
35°	756	556
45°	148	120
55°	27	27
65°	9	9
75°	3	4
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10458.7
1°	10380.3
2°	10166.6
3°	9781.3
4°	9320.7
5°	8827.0
6°	8288.0
7°	7746.1
8°	7237.4
9°	6764.7
10°	6331.2
11°	5921.7
12°	5554.4
13°	5220.3
14°	4925.2
15°	4663.3
17.5°	4076.3
20°	3579.5
22.5°	3143.0
25°	2784.8
27.5°	2420.4
30°	1971.9
32.5°	1339.7
35°	755.7
37.5°	445.5
40°	298.1
42.5°	210.7
45°	147.5
47.5°	96.3
50°	60.3
52.5°	36.2
55°	27.1
57.5°	21.1
60°	15.1
62.5°	12.1
65°	9.0
67.5°	6.0
70°	6.0
72.5°	3.0
75°	3.0
77.5°	3.0
80°	3.0
82.5°	3.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	3.0
87.5°	3.0



(END OF REPORT)