

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: P584477

Luminaire Tested: **HC835D010-HM82555935-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584477
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-HM82555935-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3489.9 lumens
Efficiency: N/A
Efficacy: 103.6 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

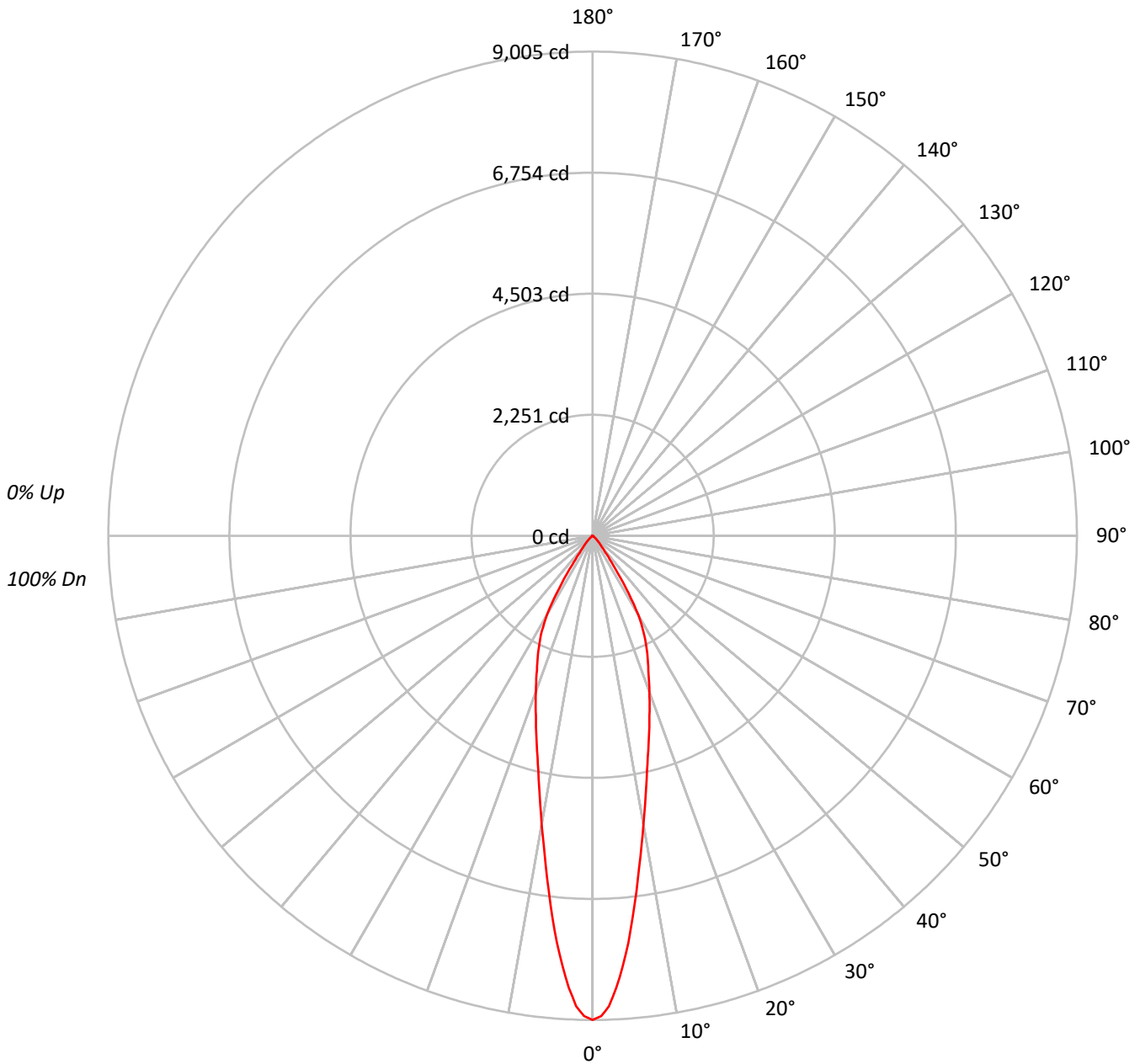
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	277693
5°	235264
10°	170694
15°	128185
20°	101140
25°	81583
30°	60457
35°	24491
40°	10329
45°	5538
50°	2490
55°	1258
60°	796
65°	569
70°	469
75°	310
80°	462
85°	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.6	18.7
10°-20°	1127.8	32.3
20°-30°	1090.4	31.2
30°-40°	478.9	13.7
40°-50°	103.5	3.0
50°-60°	23.3	0.7
60°-70°	8.0	0.2
70°-80°	3.1	0.1
80°-90°	2.5	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°	2870.7	82.3
0°-40°	3349.6	96.0
0°-60°	3476.4	99.6
0°-90°	3489.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3489.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9005	
5°	7600	653
15°	4015	1128
25°	2398	1090
35°	651	479
45°	127	104
55°	23	23
65°	8	8
75°	3	3
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9005.4
1°	8937.9
2°	8753.9
3°	8422.1
4°	8025.5
5°	7600.4
6°	7136.4
7°	6669.7
8°	6231.6
9°	5824.7
10°	5451.4
11°	5098.9
12°	4782.7
13°	4494.9
14°	4240.8
15°	4015.3
17.5°	3509.9
20°	3082.1
22.5°	2706.3
25°	2397.8
27.5°	2084.2
30°	1697.9
32.5°	1153.6
35°	650.6
37.5°	383.6
40°	256.6
42.5°	181.5
45°	127.0
47.5°	82.9
50°	51.9
52.5°	31.1
55°	23.4
57.5°	18.1
60°	12.9
62.5°	10.4
65°	7.8
67.5°	5.2
70°	5.2
72.5°	2.6
75°	2.6
77.5°	2.6
80°	2.6
82.5°	2.6



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	2.6
87.5°	2.6



(END OF REPORT)